Volume # R0322

B00K A-322

FIELD NOTES

OF THE SURVEY OF THE

	quarius Forest Reserv	ze Boundary.	
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	State of Uto	ah	***************************************
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$Of\ the$	Salt Lake Base and	Meridi	an,
	•		

	AS SURVEYED	BY	
·	*******************************	, United States I	eputu Surveyor.
orders			
r his Contract×No	, dated	Hay 13,	
y commenced	June 13,		,1904
u completed	Chutaulian 00		
	September 26,	**************	, 19 0 .4
6151	*)		

NAMES AND DUTIES OF ASSISTANTS.

J. J. Filiatt,	Chalaman	,
P. S. Darlington,	H	
و دهاندانو و هاماه نشره و بالمام به هام به مام ب		
A. C. Wimer,	11	
		,
Arthur B. McAntire,		
I_A_Willis,	Mounthan & Aman	
J. J. Elliatt,	11 11	
-		
Altern Allen,	Moundmen & Azman	
William Prinkerhoff, C. I. Luke,	Axaan	
	777	
Arthur B. McAntire,	F1-agritui	

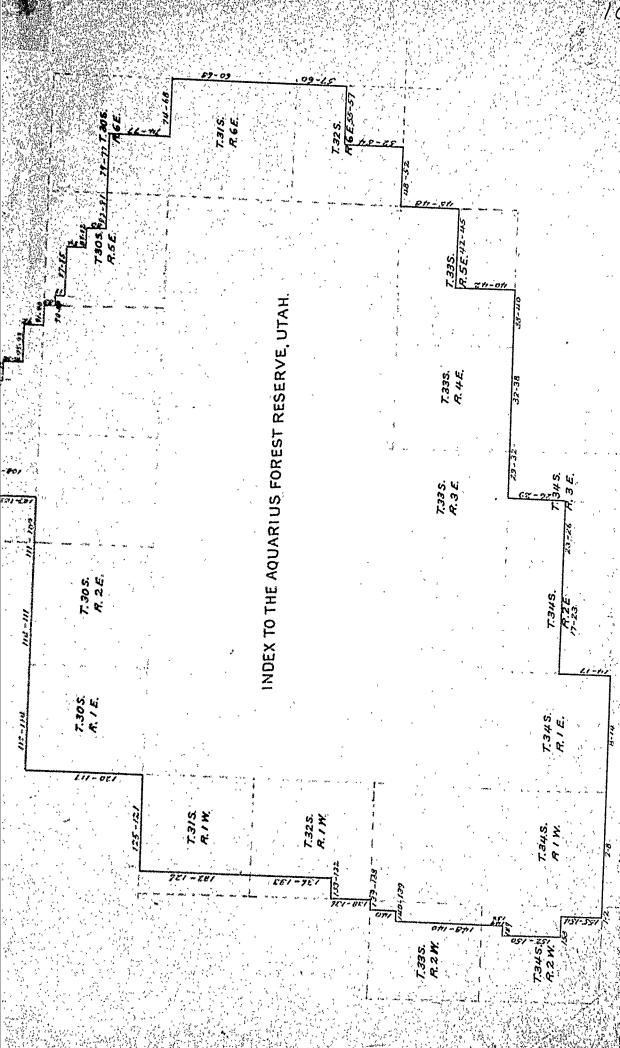
6-161

Volume # R0322

BOOK A-322

PRELIMINARY OATHS OF ASSISTANTS.

WE. J. J. Elliott, A.G. Wimer,		4.4
	P.S. Darlington & Arthur D. HoA	
and faithfully	v execute the duties of charminest, that we w	4 4 1 4 1
1 and uneven ground and plumb the	le tally pins, either by slicking of diopping on	3 12442214
ill and the two distances to all notable ob	ojects, and the true lengths of an lines blan	MO Hours
measuring, to the best of our skill and ability, and	in accordance with instructions given us, in t	ho survey
Aquarius Forest Re	serve Boundary,	17.7
	J. J. Elliott.	Chainma
' .	A. G. Winer P. S. Darlington	, Chainma
	Arthur B. McAntire	n',
Subscribed and sworn to before me this14)	1 145
day ofJune, 1904.		, ,
Aug. 3 and Sept. 9 for Elliott:	J.o. P. Wolker,	ر ریشجمت شاعی
Aug. 8 for McAntire.		
Aug. 8 for SEAL McAntire. June 24 " Example Darlington.	U. S. Surveyor.	. دلایم دستندست است. معرف
		,
WE, L. A. Willis, J. J. Elli	Lott, and Albern Allen	
do solemnly swear that we will well and truly	perform the duties of moundmen in the	estannaum
of corners, according to the instructions given u	us, to the best of our skill and ability, in t	the survey
	eserve Poundary,	
Aquartus Forest Re	2x2. Car 21. The contract that the great of the great of the contract of the c	
	L. A. Willis.	Mounding
	л. Л. Elliott	
***	Albern Allen ,	Moundm
•		
Subscribed and sworn to before me this14_	(
day of June , 1904	<u>-</u>	
June 24 for J.J. Elliott.	Juo, P. Walker,	
Sept. 19 for Excess Allen.	•	
	U.S. Surveyor.	
	T T TIPE 4 And 4 Use There is a ready of 5	G.L.Li
	. J.J.Elliott, Vm. Erimerhoff	
do solemnly swear that we will well and truly per		me or corr
and other duties, according to instructions given	ne to the best of our skill and ability. In	
	da, to the bost of our sixte that the	
Aquarius Forest H	•	the survey
Aquarius Forest H	Reserve Poundary,	the survey
Aquarius Forest E	Reaerve Poundary,	the survey
Aquarius Forest E	L. A. Willis, Albern Allen,	the survey
Aquarius Forest H	Albern Allen, J. J. Ellievt,	the survey
	L. A. Willis, Albern Allen, J. J. Elliout, Was. Brinkerhoff,	the survey
Subscribed and sworn to before me this14	L. A. Willis, Albern Allen, J. J. Elliout, Was. Brinkerhoff,	the survey
Subscribed and sworn to before me this14	Reserve Poundary, L. A. Willis, Albern Allen, J. J. Elliout, What Brinkerhoff, G.L. Luke.	the survey
Subscribed and sworn to before me this14	L. A. Willis, Albern Allen, J. J. Elliout, What. Brinkerhoff, G.L. Luke.	the survey
Subscribed and sworn to before me this	L. A. Willis, Albern Allen, J. J. Ellievt, Wm. Brinkerhoff, G.L. Luke. Jno. P. Walker,	the survey , Awm
Subscribed and sworn to before me this	L. A. Willis, Albern Allen, J. J. Elliout, What. Brinkerhoff, G.L. Luke.	the survey , Awm
Subscribed and sworn to before me this 14. day of June , 1904. June 24 for J.J. Elliott. Aug. 24 for Whu. Erinkerhoff Sept. 12 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. J. Luke. J. J	the survey
Subscribed and sworn to before me this 14 day of June , 1904. June 24 for J.J. Elliott. Aug. 24 for Wha. Brinkerhoff Sept.12 for WELL G.L.Luke. Aug. 16 2 Willis & Alle I, Arthur B. HeAntire	L. A. Willis, Albern Allen, J. J. Elliout, Wm. Brinkerhoff, G. L. Luke. J. J. Luke. J. J. Luke. J. J. Luker, J. J. J. Luker, J. J	the survey , Awm
Subscribed and sworn to before me this 14. day of June , 1904. June 24 for J.J. Elliott. Aug. 24 for Whu. Erinkerhoff Sept. 12 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle	L. A. Willis, Albern Allen, J. J. Elliout, Wm. Brinkerhoff, G. L. Luke. J. J. Luke. J. J. Luke. J. J. Luker, J. J. J. Luker, J. J	the survey , Awm
Subscribed and sworn to before me this 14 day of June , 1904. June 24 for J.J. Elliott. Aug. 24 for Seargo.L.Luke. Sept. 12 for Seargo.L.Luke. Aug. 16 2 Willis & Alle I, Arthur B. HeAntire	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. J. Luke. J. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Boundary,	, Axm , Ixm
Subscribed and sworn to before me this14	L. A. Willis, Albern Allen, J. J. Elliout, Whn. Brinkerhoff, G.L. Luke. f, Jno. P. Walker, Jno. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Roundary,	the survey , Awm
Subscribed and sworn to before me this14	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. J. Luke. J. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Boundary,	the survey , Awm
Subscribed and sworn to before me this 14	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Roundary, Arthur E. McAntire	the survey , Awm
Subscribed and sworn to before me this 14 day of June 1904 June 24 for J.J. Elliott. Aug. 24 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle. I, Ar thur B. HeAntire perform the duties of flagman according to instrusurely of Aquarius Forest Subscribed and sworn to before me this 14	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Roundary, Arthur E. McAntire	the survey , Awm
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Subscribed and sworn to before me this 14 day of June , 1904 June 24 for J.J. Elliott. Aug. 24 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle. I, Ar thur B. HeAntire perform the duties of flagman according to instrusurely of Aquarius Forest Subscribed and sworn to before me this 14	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Roundary, Arthur E. McAntire	Jam u Jam u vell and tr ability, in
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Subscribed and sworn to before me this 14 day of June 1, 1904 June 24 for J.J. Elliott. Aug. 24 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle. I, Ar thur B. HeAntire perform the duties of flagman according to instrusurely of Aquarius Forest Subscribed and sworn to before me this 14 day of June , 190 4.	L. A. Willis, Albern Allen, J. J. Elliout, Wha. Brinkerhoff, G.L. Luke. J. J. S. Surveyor, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Roundary, Arthur E. McAntire	well and to ability, in
Subscribed and sworn to before me this 14 day of June , 1904 June 24 for J.J. Elliott. Aug. 24 for SEAL G.L. Luke. Aug. 16 2 Willis & Alle. I, Ar thur B. HeAntire perform the duties of flagman according to instrusurely of Aquarius Forest Subscribed and sworn to before me this 14	L. A. Willis, Albern Allen, J. Elliout, Whn. Brinkerhoff, G.L. Luke. f, Jno. P. Walker, do solemnly swear that I will y uctions given me, to the best of my skill and Reserve Boundary, Arthur B. McAntire	well and to ability, in



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	Tou	nship	34 S.	, Range	20	1
	8	5	4	8	2	1
	7	8	9	10	11	12
	18	17	16	15	14	. 13
	19	20	21	20	23	22
	80	29	28	27	26	25
7	31	82	88	84	85	36

Meanders Page

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Tot	wnship?) H S.	, Range	<u>3 &</u> ,	
6	5	4	28 :	2	1
7	S	9	27 10	11	12
18	17	16	26 15	14	13
19	24	25	22	28	54
30	20	28	27	26	25
31	32	88	34	85	96

Tou	vnship	<u> 33 S.</u>	, Range	5 <u>C</u>	***************************************	
G	5	4	8	2	1	47
7	8	9	10	11	12	46
18	17	16	15	14	13	45
19	20 4	/ 21	¥3	28	24	
30	20 4	O 28	27	26	25	
31	82 4	O 88	84	35	36	
. 8 C.	01					

Tot	wnship	328,	, Range.	b &,		
G	5	4	8	2	1	39
7	8	Đ	10	11	12 ¢	58
18	17	16	15	14	13 c	5/7
19	20	21	22 4	28	24	-
80	20	28 T	-3 ²⁷	26	25	
#1 2/ J	32	³³ లే.	2 84	85	96	

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INDEX DIAGRAM.

Tou	nship	<u>308,</u>	, Range.	<u>66.</u>	
6	5	4	3	2	1
7	8	9 .	10	11	12
18	17	16	15	14	13
19	20	21 7/	7 22 7	28	24
30	29	28 75	_ 27	26	25
31	82	33 74	84	85	36
1.	Mean	ders Page	73	- 7/	70

900K A-322

	Total	wnship	308,	, Range	5 O.	·
8		5	85	8 32		1
ļ	7	8		84 10	11	12
	18	17	16		70 14	13
	19	20	21	22	28	24
	30	20	28	27	26	25
	31	82	83	34	85	36

BOOK A-322

INDEX DIAGRAM.

Total	unship	<u> 29.8</u>	, Range.	<u>H</u> 0.	# # ##################################
6	AC TO THE PROPERTY OF THE PROP	Afternoon and Company of the Company	T. 25	7	1
1	-	TO THE PROPERTY OF THE PROPERT	to	11	12
24	11	16		14	13
29	š	71	**	77	24
2.6	To a state of the	_		The second secon	# \$
ät	##	The state of the s	17. 11	7.3	/ Bq

Tot	vnship	296.	, Range.	30	************
G	5	4	3	2	1
	8	ŋ	10	11	10
18	17	, 16	15) 14 /0)2 ¹³
10	20	21 , (23 23	24
по	20 /0	6 ²⁸	27	20	25
31	"2 /00	/ 83	34	85	00

800K A-322

INDEX DIAGRAM.

Township	310.	, Range.	<u> 1 W.</u>	
a /3/ 5	4	g	2	1
: 130 s	D	10	11	12
18 /29 17	16	15	14	13
19 /38 20	51	22	23	51
30 /38	28	27	20	25
51 /2 7 52 /20	83	84	85	96

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<u></u>	Tou	vnship	328.	Range.	171.	
	6	135 5	4	3	2	1
	7 /	35 8	9	10	11	15
	18	34 17	16	15	14	13
	19 /. /32	33 20	21	92	28	24
36	30	29	28	27	26	25
7	31	32	83	34	85	00

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INDEX DIAGRAM.

Tou	unship	338,	, Range	2 14.	
G	5	4	a	2	140 140
7	s	9	10) ¹³⁴ /
18	17	16	15	14 142	13
10	20	21	55	28 / 4/2	3 24
20	20	28	27	20 /247	25
οι	#2	83	34	146	30 S

BOOK A-322

INDEX DIAGRAM.

	Tou	nship	348.	, Range	2 W.	Biddings/Aquin of the first
			7 3 3 4 3 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4	\$.	2 /	49 :
		8	9	fo	150	12
	18	17	16	15	167	13
, , ,	19	20	21	22	152	24
,	30	29	18	27	26	154
,	81	82	` 88	34	E-5.	154

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Chains.
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Survey commonced June 15, 1904, and executed with a Young a Sons light mountain transit with Smith solar attachment. The instrument is provided with two verniors roading to single min-utes of arc, which is also the least count of the latitude and doclination arcs. Having tested instrument levels, standards and line of collimation, and in order to test solar apparatus. I proceed as follows:

At corner of secs. 1, 2,35 and 36, Tps. 34 and 35 S., R. 2 W., in latitude 57°48'58" N., longitude 112°01' 7. from Greenwich, I observe Polaris at eastern elongation at 14h03.5" astronomical time June 12th (34 minutes post 2 a m ical time June 12th (35 minutes past 2 a.m. June 13, 1.m.t.) and mark the line thus determined by hub in ground 5.00 chs. N. of corner. ine 13: At 7 a.m. I set off to the west 1°31.5! June 13: the azimuth of Polaris and mark true meridian by hub in ground 5.00 chs. K. of corner. At same hour I set off 37°48'30" on latitude arc and 23°14' N. on the declination are and establish meridian with solar with same latitude and declination at 16 seconds before noon 1.m.t. I observe sun on moridian and find latitude corroct. At 5 p.m. I set off same latitude and 23°15'30" N. on declination are and establish moridian with solar and find that a.m. and p.m. observations agree with meridian established by Polaris. The magnetic bearing of the meridian is H. 15°57'W. which gives the magnetic declination 15°57' June 13, 1904

June 14:"

From the corner of sees. 1, 2, 35 and 36 just described I run

East on true line between secs. 1 and 36 along H. E. slope of spur, gradually descending, through open land with some scattering timber.

Base of 20-foot descent at west side of open flat hollow, bears H. W. and B.

Wash in hollow, course N. 70° W. Begin ascent, bears N. W. and S. E.

Top of 40 foot ascent on south slope of spur; begin descent N. E. and S. W.

Side hill draw, 10 lks. wide, course S., at base of 30 foot descent; begin ascent bears H. and S. Top of 60 foot ascent on south slope of spur;

bogin descent, bears N. E. and S. W. Side hill draw, 10 lks. wide, course S., at base of 50 foot descent; begin ascent, bears H. and

Top of 50 foot ascent on south slope of spur, begin descent, bears M. E. and S. W.

After diligent search, no trace of theorner being found and no evidence of its former position

being obtainable, set U. S. Forest Roservo Boundary Post No. 1, 25 It. in ground and build mound of stone 3 ft. base. 12 ft. high around same, for 2 sec. corner and for S. W. corner of Reserve, marked

U. S. Forest Reserve Boundary Post No. 1. on top of cap:

RESKRYE on A . Elequadrant.

R. 2 W. on S. E. quadrant, T. 35 S. on S. W. quadrant L S. 36 on H. W. quadrant, from which a Pine , 24 ing . diam. , bears N. 7°30' W. 229

9.00

18.00 22.00 25.50

26.50

30.00

32.50

36.00

40.00

South Boundary T. 34 S., R. 2 W.

Chains lks. dist., marked 1 S 36 B T No other trees available. 40.50 Draw, 10 lks. wide, course S. W., at base of 50 foot descont. Draw, 10 lks. wide, course N. W. for 2 chs. to 42.50 former draw. Begin ascent, bears N. E. and S. W. Top of 70 foot abrupt ascent, bears N. W. and S., and enter timber, bears N. W. and S., and enter timber, bears N. W. and S. Draw. 5 lks. wide, course N. A. sandstone marked and witnessed for corner of Tps. 35 and 34 S., Rs. 1 and 2 W., bears N. 53 lks. dist. Begin ascent, bears N. E. and S. W. 47.00 73.50 79.60 This corner being improperly marked and not Note: officially accepted according to information given by General Land Office also by Surveyor Siven by General Land Office also by Surveyor General of Utah, I leave same undisturbed and make my survey independent of its existence, according to instructions dated June 28, 1904.

Set U. S. Forest Reserve Boundary Post No. 2, 18 ins. in ground to rock, and build mound of stone and earth, 5 ft. base, 2 ft. high, around same for S. E. corner to T. 34 S., R. 2 W., and N. E. corner of T. 35 S., R. 2 W., marked

RESERVE in N. W. quadrant,
T 35 S R 2 W S 1 in S. W. quadrant, with 6 notches on N., S. and W. faces, from which A pine, 28 ins. diam., bears S. 48°15' W., 160 lks. dist., marked T 35 S R 2 W S 1 B T
A pine, 26 ins. diam., bears N. 11° W., 43 lks dist., marked RES T 34 S R 2 W S 36 B T 00.00 Timber, neattering pine. Land, rolling and rocky. Soil, sandy and rocky, 4th rate. Juno 14, 1904. Rote: This corner established July 8, 1904, after couth boundary of T. 34 S., R. 1 W., has been run and the necessity of a closing corner for S. W. corner of T. 34 S., R. 1 W., demonstrated. ne 15: At 7h0m98 a.m., l.m.t., I set off 37°48%' on the latitude arc and 33°30' N. on the decline-At 7homos a.m. June 15: tion are and determine a true meridian with the Eagnetic declination 15°57' E., at the corner of Tps. 34 and 35 S., R. 2 W.

East on random line along the couth boundary of
T. 34 S., R. 1 W., setting temporary stake for 4
sec. corner between sees. 6 and 31 at 39.44 chs.,
allowing for theoretical convergency, thence setting temporary stakes for section and 4 sec. corners at 40.00 chs. interval and at 475.01 chs. intersect the Salt Lake Moridian 9.09 chs. south of corner to Tps. 34 and 35 S., Rc. 1 E. and 1 W. June 18, 1904. July 6: As this closing will make township line. dovinto from a west course more than 21' of are, I run due west on true line from corner of Tps.

34 and 35 S., Rs. l E. and l W. just noted, according to special instructions dated June 28, 19

July 6: At 7^h4^m26^B a.m., l.m.t., I set off 37°48 and 22°43 and 10°43 and 1

35 S., R. 1 E. and 1 W.
Thence I run
Went on true line between sees. 1 and 36, ever
rolling land through open timber.

are and establish meridian with solar. Magnetic declination 16°10' E. at corner of Tps. 34 and

```
Chains.
      .03
                  Set U. S. Forest Reserve Boundary Post No. 8, 2
                      ft. in ground, and build mound of stone, 4 ft.
                      base, 12 ft. high around same, marked
                            RESERVE in N. W. and N. E. quadrants, with
                                no other markings.
                  Draw, 10 lks. wide, course S. 20° E., begin ascent, bears N. 20° W. and S. 20° E.
  30.00
  33.50
                  Top of 50 foot ascent on south slope of spur; begin
                 descent, bears N. W. and S. E.

Base of 40 foot descent at draw, 10 lks. wide,
course S. E.; begin ascent, bears N. W. and S. E.

Set a limestone 24 x12x8 ins., 18 ins.in the ground,
for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on N. face, from
 38.00
 40.00
                     which
                           A pine, 20 ins. diam.,
                A pine, 20 ins. diam., bears N. 80 E., 70 indist., marked RES 4 S 56 B T

A pine, 22 ins. diam., bears S. 75° W., 140 lks. dist., marked 4 S 1 B T

Top of ascent 50 feet, on S. E. slope of spur; begin descent, bears N. 80° W. and S. 80° E.

Draw, 5 lks. wide, course S. 20° E. at base of 30-foot descent, bears N. 20° W. and S. 20° E.
                                                                         bears N. 86° E., 75 1ks
 43.00
 51.00
 54.80
                 Draw, 15 lks. wide, course S. 70° E.;
                                                                                                begin ascent
                     bears N. W. and S. E.
 66.50
                 Pine tree, 30 ins. diam., on line I mark with 2
                     notches on E. and W. sides.
                 set U. S. Forest Reserve Boundary Post No. 7, 18 ins. in ground to rock, and build mound of stone and earth, 5 ft. base, 2 ft. high, around same for corner of secs. 1, 2, 35 and 36, marked RESERVE in N. E. and N. W. quadrants,
80.00
                          RIW Slin S. E. quadrant,
T 35 S S 2 in S. W. quadrant, with 1 notch
                          on E. and 5 notches on W. faces, from which A pine, 18 ins. diam., bears N. 27° E., 71 lks dist., marked RES T 34 S R 1 W S 36 B T A pine, 18 ins. diam., bears S. 44°30' E., 129 lks. dist., marked T 35 S R 1 W S 1 B T
                          A pine, 22 ins. diam., bears S. 0°30' W., 55 lks. dist., marked T 55 S R 1.W S 2 B T A pine, 20 ins. diam., bears N. 70° W., 21 lks dist., marked RES T 54 S R 1.W S 35 B T
                Corner falls on E. slope of hill 300 ft. above
                     last draw.
                Timber, scattering pine and cedar; pin oak under-
                    brush.
                Land, hilly and rocky.
                Soil, gravelly, 4th rate.
                At 12^{h}4^{m}26^{s} l.m.t., I set off 22^{\circ}41^{\frac{1}{2}}! N. on the
                    declination are and observe sun on meridian and obtain a reading of 37^{\circ}48\frac{1}{2} on latitude are,
                    which agrees with other data.
                From corner of secs. 1, 2, 35 and 36 I run
                West on true line between secs. 2 and 35, through timber, ascending, bears N. 20° W. and S. 20° E
                Top of 40 foot ascent, bears N. W. and S. E.;
  5.00
                thence over flat bench.
Draw, 10 lks. wide, course N. 20° E.; begin ascent
24.00
                    bears II. and S.
               Draw, 10 lks. wide, course N. 20° E.; leave timber and begin abrupt ascent over sandstone and flint slide rock, bears N. 20° W. and S. 20° E. Set sandstone 18x10x8 ins., 12 ins. in ground, for \( \frac{1}{4} \) sec. corner, marked \( \frac{1}{4} \) on N. face, and build
29.20
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mound of stone, 2 ft. base, $1\frac{1}{2}$ ft. high, N. of

40.00

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corner; pits impracticable. Corner falls on
Chains.
                   steep slide rock sloping to N. E.
Top of 800 foot ascent, on backbone of spur, sloping
   56.90
                       to S. E. Thence cross spur and continue ascent, bears N. 80° E. and S. 80° W., along steep
                       S. slope of spur and enter timber,
                                                                                            bears N. and
                   Set U. S. Forest Reserve Boundary Post No. 6,
   80.00
                       ft. in ground, and raise mound of stone, 4 ft. base, 13 ft. high around same, for corner of
                       secs. 2, 3, 34 and 35, marked
                            RESERVE on N. E. and N. W. quadrants,
                             R 1 W S 2 in S. E. quadrant T.35 S S 3 in S. W. quadrant, with 2 notches
                                on E., and 4 notches on W. sides, from which a
                            Pine, 8 ins. diam., bears N. 25°30' E., 90 lk dist., marked RES T 34 S R l W S 35 B T Fir, 14 ins. diam., bears S. 33°30' E., 121 lks. dist., marked T 35 S R l W S 2 B T Fir, 22 ins. diam., bears S. 25°30' W., 248 lks. dist., marked T 35 S R l W S 3 B T Fir, 18 ins. diam., bears H. 26° W., 129 lks. dist., marked RES T 34 S R l W S 34 B T er falls on south slove of clide mark hill 250
                   Corner falls on south slope of slide rock hill 850
                       ft. above draw.
                   Timber, scattering pine, spruce and fir.
                   Land, mountainous and precipitous.
                  Soil, principally small slide rock, 4th rate.
                                                                                        July 6, 1904.
                   July 7: At 7h4m50s a.m.,
                                                                   1.m.t., I set off 37°485
                      on latitude are and 22°373' N. on the declination
                      arc and establish true meridian with solar.
                      Magnetic declination 16°00' at corner of secs.
                  2, 3, 34 and 35. Thence I run
                  West on true line between secs. 3 and 34, through timber, ascending, bears N. 80° E. and S. 80° W. Fresh water spring, bears S., 3 chs. dist., and
    3.00
                      drains to S. E.
                 Draw, 5 lks. wide, course S. E. Ascent becomes abrupt and bears N. 80° E. and south.

Head of draw, 5 lks. wide, course N. 70° E.

Set trachyte boulder 28x18x14 ins., 18 ins. in slide rock of small boulders on N. E. slope of hill, 450 ft. above sec. corner, for ½ sec. corner, marked ¼ on N. face, from which

A spruce, 18 ins. diam., bears N. 49°30' E.,

46 lks. dist., marked RES ¼ S 34 B T

A spruce, 22 ins. diam., bears S. 15°30' E.
    5.40
  18.70
  40.00
                                                                                                sec. cor-
                  A spruce, 22 ins. diam., bears S. 15°30' E., 100 lks. dist., marked 2 S 3 B T

Top of ascent, bears N. W. and S. E., 50 ft. above 2 sec. corner; thence across north end of table
  53.00
                  cliff plateau.
Set V. S. Forest Reserve Boundary Post No. 5, 2 ft. in ground, and raise mound of stone and earth,
  80.00
                      4 ft. base, l\frac{1}{2} ft. high, around same, for corner of secs. 3, 4, 33 and 34, marked
                            RESERVE in N. E. and N. W. quadrants,
                            R 1 W S 3 in S. E. quadrant, T 35 S S 4 in S. W. quadrant, with 3 notches
                                in E. and W. sides, from which
                           A balsam, 10 ins. diam., bears H. 62°50' E., 25 lks. dist., marked RES T 34 S R l W S 34 B T
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South Boundary T. 34 S., R. 1 W.
                              A spruce, 18 ins. diam., bears S. 34° E., 57 lks. dist., marked T 35 S R 1 W S 3 B T A balsam, 14 ins. diam., bears S. 24°30' W., 36 lks. dist., marked T 35 S R 1 W S 4 B T A spruce, 12 ins. diam., bears N. 10° W., 16 lks. dist., marked RES T 34 S R 1 W S 33 R m
 Chains.
                                    S 33 B T
                    Land, mountainous; second half level.
                   Timber, quaking asp, spruce, fir and pine.
Soil, second half, gravelly, 4th rate; first half, red soil, bar slide rock.
                   At this corner at 12^{h}4^{1m}_{2} l.m.t., I set off 22^{\circ}35^{1}_{2} N. on the declination arc and observe sun on mer-
                        idian and obtain a reading of 37°48'30" on lati-
                        tude arc, which agrees with other data.
                   Note: 10 chs. south and 1.36 chs. east of this corner is a rock corner marked and witnessed for cor
                        ner of secs. 5, 4, 33 and 34, Tps. 33 and 34 S.,
                        R 1 W., in an unofficial survey.
                  From corner of secs. 3, 4, 33 and 34, Tps. 34 and 35 S., R. 1 W., I run West on true line between secs. 4 and 33, through
                  timber over nearly level plateau.

Begin gradual descent, bears N. and S.

Begin abrupt descent over slide rock, bears N. and S.

Base of 300-foot descent, bears N. 20° E. and S.

Spring brook, 2 lks. wide, course S. 20° W.

Spring bears N., 30 lks. dist., fresh water;
  5.00
21.00
28.60
                  thence along steep side hill sloping to S.

Set a limestone 20x14x6 ins., 15 ins. in ground
for 4 sec. corner, marked 4 on N. face, from which
A pine, 8 ins. diam., bears N. 52° E., 6 lks.
dist., marked RES 4 S 33 B T
40.00
                  A cedar, 16 ins. diam., bears S. 7° W., 23 lk dist., marked ½ S 4 B T

Begin descent, bears N. W. and S. 80° E.

Draw, 10 lks. wide, course S. 20° W., at base of 250-foot descent; thence along S. slope of spur.
                                                                                      bears S. 7° W., 23 lks.
42.00
60.50
                   Begin descent, bears N. W. and S. 80° E.
76.00
80.00
```

Set U. S. Forest Reserve Boundary Post No. 4, 2 ft. in ground, and build mound of stone, 4 ft. base, 1 ft. high, around same, for corner of secs.
4, 5, 52 and 53, marked
RESERVE in N. E. and N. W. quadrants,
R. 1 W S 4 in S. E. quadrant,
T 35 S S 5 in S. W. quadrant, with 4 notches on E. and 2 on W. sides, from which A pine, 22 ins. diam., bears N. 62° E., 37 ll dist., marked RES T 34 S R 1 W S 33 B T A pine, 26 ins. diam., bears S. 34° E., 130 lks. dist., marked T 35 S R 1 W S 4 B T A black balsam, 18 ins. diam., bears S. 61° W.
64 lks. dist., marked T 35 S R l W S 5 B T
A pine, 16 ins. diam., bears N. 68° W., 111
lks. dist., marked RES T 34 S R l W S 32 Timber, pine, spruce, fir, cedar and quaking aspen.

Land, mountainous. Soil, gravelly and rocky, 4th rate.

July 7, 1904.

Note: 10 chs. S. and 3.37 chs. E. of this corner is an old rock corner, marked and witnessed for corner of secs. 4, 5, 32 and 33, on unofficial survey.

```
July 8: At 7^h4^m45^s a.m., l.m.t., I set off 37^\circ48'30" on latitude arc and 22°31' N. on the
Chains.
                      declination are and establish meridian with solar. Magnetic declination 16°08' E. at corner
                      of secs. 4, 5, 32 and 33.
                  Thence I run
                 West on true line between secs. 5 and 32, through
                 timber, descending, bears N. and S. E.

Base of descent, 100 ft. below sec. corner, bears N. 30° E. and S. 30° W. at dry branch, 20 lks. wide, course S. 30° W.; begin ascent, bears N. 30° E. and S. 30° W.
 15.30
                 Top of 50-foot ascent, on S. slope of spur, thence
 18.50
                     along S. slope of spur.
 23.00
                 Begin descent, bears ar{	t N}. W. and S. 80° E.
                 Base of 50-foot descent at dry branch, 20 lks.
 36.00
                 wide, course S. 20° W.; begin ascent, bears N. 20° E. and S. 20° W.
Side hill wash, 5 lks. wide, course S.
Set sandstone 18x10x8 ins., 12 ins. in the ground for \( \frac{1}{4} \) sec. corner, marked \( \frac{1}{4} \) on N. face, from
39.00
40.00
                     which
                           A pine, 14 ins. diam.
                                                                         bears N. 43°30' W., 22
                               lks. dist., marked RES 4 S 32 B T.
                A black balsam, 12 ins. diam., bears S. 31° E.

41 lks. dist., marked \( \frac{1}{4} \) S 5 B T

Top of 40 ft. ascent on S. slope of hill, thence descending, bears N. 80° W. and S. 80° E.

Base of 80 ft. descent, bears N. 20° E. and S.20° W. at draw, 10 lks. wide, course S. 20° W.; thence over rolling surface along S. slope near foot of hill
42.00
55.50
                    hill.
76.60
                An old corner rock marked for corner of secs. 5, 6,
                    31 and 32, Tps. 33 and 34 S., R. 1 W., of an un-
                    official survey, bears S. 9.36 chs. dist.
                official survey, bears S. 9.36 chs. dist.

Set U. S. Forest Reserve Boundary Post No. 3, 25 ft. in ground, and build mound of stone and earth, 3 ft. base, 1 ft. high, around same, for corner of secs. 5, 6, 31 and 32, marked

RESERVE in N. W. and N. E. quadrants,
R. 1 W., S. 5 in S. E. quadrant, with 1 notch
80.00
                          on W. and 5 notches on E. sides, from which A pinion, 8 ins. diam., bears N. 55°50' E., 85 lks. dist., marked RES T 34 S R 1 W S 32 B T
                         A pine, 22 ins. diam., bears S. 70°30' E., 69 lks. dist., marked T 35 S R 1 W S 5 B T A spruce, 10 ins. diam., bears S. 12° W., 121 lks. dist., marked T 35 S R 1 W S 6 B T A spruce, 20 ins. diam., bears N. 79° W., 83 lks. dist., marked RES T 34 S R 1 W S 31 B T
                Corner falls at foot of hill, 50 lks. N. of creek
                    bank.
                Land, mountainous.
                Timber, pine, spruce, fir and cedar, all of infer-
                    ior size except pine.
                Soil, rocky and gravelly, 4th rate.
               At 12h4m46s l.m.t., at this corner I set off
                    22°28'30" N. on declination are and observe sun
                    on meridian and obtain a reading of 37°48'30" on
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latitude arc, which agrees with other data.

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From corner of secs. 5, 6, 31 and 32 I run West on true line through scattering trees over
  Chains
                       rolling land.
                   South creek, 30 lks. wide, 12 foot banks, course N. 70° W., stream of fresh water, 4 lks. wide,
   1.20
                       3 ins. deep, sinksabout 1 mile further down
                       creek.
   2.00
                   Leave timber, bears N. 70° W. and S. 70° E.; enter
                       open sage brush bottom.
                  Enter swampy ground, quaking asp timber and underbrush, bears N. 70° W. and S. 70° E., draining to N. 70° W.
   9.50
                  Leave swamp, enter scattering timber, bears N. 70°W and S. 70° E., begin gradual ascent.
 11.00
                  Top of 50 foot ascent and begin steep descent, bears N. 30° W. and S. 30° E.

Open hollow draw, course N. 30° W., at base of
 28.00
 32.50
                      50 foot descent, begin ascent, bears N. W. and S. 30° E.
                 Top of 40 foot ascent on N. slope of spur, begin descent, bears N. E. and S. W.
Set a sandstone 22x12x 5 ins., 18 ins. in the
 38.00
 40.00
                      ground, for 1 sec. corner, marked 1 on N. face,
                      from which
                             A pine, 20 ins. diam., bears N. 50°15' E., 203
                                 lks. dist., marked RES 1 S 31 B T
                 A pine, 26 ins. diam., bears S. 53°15' E., 95 lks. dist., marked & S 6 B T Base of 30 foot descent, bears N. E. and S. W.
                 Base of 30 foot descent, bears N. E. and S. W.
Open hollowdraw, 10 lks. wide, course N. 20° E.
Begin ascent, bears N. E. and S. 80° W.
Top of 80 foot ascent, bears N. 20° E. and S. 20° W;
begin descent, bears N. W. and S. 20° E.
Base of 80 foot descent, bears N. 20° W. and
S. 20° E.; draw, 10 lks. wide, course N. 20° W.
Intersect N. and S. range line between Rs. 1 and
2 W., 9.09 chs. north of Forest Reserve Boundary
Post No. 2, corner set by me for S. E. corner of
T. 34 S., R. 2 W., and N. E. corner of T. 35 S.,
R. 2 W., at which point I set U. S. Forest Reserve Boundary Post No. 2½, 2 ft. in ground,
around which I build a mound of stone 4 ft. base,
lift. high, for closing corner of Tps. 34 and
41.00
42.00
45.50
56.00
73.50
75.01
                     Total which is built a mound of stone with state, like it. high, for closing corner of Tps. 34 and 35 S., R. l W., marked RESERVE in N.E., N.W. and S.W. quadrants, T 35 S R l W S 6 in S. E. quadrant, C C on east side, with 6 notches on east side,
                                from which
                            A pine, 30 ins. diam., bears N. 69°30' E., 163
                                lks. dist., marked RES CC T 34 S R 1 W
                                S 31 B T
                            A pine, 26 ins. diam., bears S. 56° E.,
                                lks. dist., marked CC T 35 S R 1 W
                 Timber, scattering pine.
                 Land, rolling.
                 Soil, gravelly and sandy, 3rd and 4th rate.
                At 5^{h}4^{m}45^{s} p.m., l.m.t., I set off 37^{\circ}48'30" on latitude are and 22^{\circ}28' N. on the declination are
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at corner of secs. 1, 2, 35 and 36 of Tps. 34 and 35 S., R. 2 W., and test instrument on meridian established by me June 13, 1904, and find same correct.

Tps. 34 and 35 S., R. 1 W., are mountainous, the Aquarius Plateau occupying center N. and S. of T. 34 S., and Table cliff plateau occupying

Chains.

center N. and S. of T. 35 S. The range line between Rs. 1 and 2 W. and the Salt Lake Meridian running along sides of mountains near foot hills. T. 35 S., R. 1 W., should be included in the Reserve.

July 8, 1904

June 19, 1904.

June 18, 1904: At 10h15m p.m., 1.m.t., I observe Polaris in accordance with Manual instructions and mark the direction thus determined by peg firmly set in ground 5.00 chs. north of my station (which is near the corner of Tps. 34 and 35 S. Rs. 1 E.and 1 V.)
U. C. June 15, 1904, 19h46.8^m

19h46.8m Dif. for 3 days. 11.7 U. C. June 18. 19h35.1m Time of observation, 10 15 Hour angle and time argument, 9h20m Longitude 111°54', latitude 37°48'30" N. Azimuth corresponding to time argument from Table VII = 0°57'.

June 19: At 7 a.m. I set off to the west the azimuth of Polaris 0°57' and mark meridian by pencil stuck in stake firmly driven in ground and test solar throughout day, and find same correct to within less than ? of a minute of arc.

June 20: At corner of Tps. 24 and 35 S., Rs. 1 E. and 1 W., on Sult Lake Meridian, which is a sand-stone (instead of limestone as called for) 10x8x10 ins. above ground, marked and witnessed as described in notes furnished by General Land Office, at 7hlym l.m.t., at the corner above described I set off 37°48'30on the latitude are and 23°27'45" R. on the declination are and determine neridian with the colar, Mag. Dec. 15°42' E. Thence I run

East on a random retracement line between secs.

6 and 31, through scattering timber.
Intersect N. and S. 2 sec. line 19 lks. S. of 2 corner between secs. 6 and 31, which is a limestone (instead of sandstone) loxux8 ins. above

ground, marked as described in notes of General Land Office, witnessed by
A pine, 26 ins. dian., bears N. 51° W., 108
lks. dist., instead of N. 41° W., 108
lks. dist., as called for in notes, and

A pine, 24 ins. diam., bears S. 62° E., 140 lks. dist., instead of S. 52°E., 140 lks. dist., as called for in notes.

Thence from the 2 corner I run
S. 89°44' W. on true line, descending, bears H.E.

and S. W.

Base of descent 30 ft. below & sec. corner. Creek, 5 lks. wide, 3 ins. deep, fresh water, Course M. 60° E.

Corner of Tps. 34 and 35 S., Rs. 1 E. and 1 W. From & sec. corner between secs. 6 and 31 I run East on random retracement line between socs. 6 and 31, through scattering timber, ascending, bears M. E. and S. W.

Intersect N. and S. sec. line 18 lks. N. of corner of secs. 5, 6, 31 and 52, which is a trachite boulder, marked and witnessed as described in notes of General Land Office.

40.16

4.20 40.16

1.60

40.13

ACUARIUS FOREST RESERVE BOUNDARY.

South Boundary T. 34 S., R. 1 E.

Thence from section corner I run !
North 89°45' W. on true line between secs. 6 and Chains 31. descending along steep N. slope of hill.

Set U. S. Forest Reserve Boundary Post No. 9, 2 ft.
in ground, and build mound of stone, 4 ft. base,
late thish, around same for boundary line mark-.03 ing, marked RESERVE in N. E. and N. W. quadrants. Side hill draw, 5 lks. wide, course N. Base of 100 foot descent at draw, course N. E., for 3 chs., into creek; begin ascent bears N. E. 7.80 20.30 and S. W. Top of 50 foot ascent, bears N. 70° E. and S. 70° W. Begin descent, bears N. 80° E. and S. 80° W. 2 sec. corner, between secs. 6 and 31. 25.00 36.50 40.13 Land, hilly. Soil, sandy and rocky, 4th rate. Timber, scrubby pine and cedar At corner of secs. 5, 6, 31 and 32, I set off 23°27' N. on the declination arc, and at 12h1 m, 1.m.t., observe sun on meridian and obtain a reading of 37°48'30" on latitude arc. Note: The bearing of this line is reported by General Land Office notes as S. 89°59' E. I run random line due east on account of its lessening probability of error. Thence I run East on random retracement line between secs. 5 and 32, gradually ascending along N. slope of hill through timber. Magnetic declination 15°45' Intersect N. and S. 4 sec. line 41 lks. south of the 4 sec. corner, which is a trachite (instead of sandstone) 10x3x5 ins. above ground, marked and witnessed as described in notes of General 39.70 Land Office. Thence I run S. 89°25' W. on true line. Begin descent, bears N. E. and S. W. 8.20 Base of 25-foot descent at draw, 8 lks. wide, course N. E. Begin ascent, bears N. E. and S. W. 10.00 14.00 Cross backbone of spur and continue gradual ascent along N. slope of same.

Top of 100-foot ascent on N. slope of spur; begin descent, bears N. 80° E. and S. 80° W.

At corner of secs. 5, 6, 31 and 32, 25 ft. below 31.00 39.70 last summit. From the $\frac{1}{4}$ sec. corner I run east on random retracement line between secs. 5 and 32. 40.06 Intersect N. and S. sec. line, 123 lks. S. of corner of secs. 4, 5, 32 and 33, which is a sandstone 8x10x14 ins. above ground, marked and witnessed as described in notes of General Land Office. Thence I run
S. 88°15' W. on true line between secs. 5 and 32, descending, bears N. and S., through timber.
Base of 40-foot descent, bears N. and S., at draw,
5 lks. wide, course S. 20° W. 3.30 Leave timber, enter Liston's field of lucern, bears N. W. and S. E. 7.80 20:00 Birch Creek, bed 80 lks. wide, stream fresh water, 5 lks. wide, 3 ins. deep, course S. E. Fence, leave Liston's field, enter timber, bears 21.20 N. 609 W. and S. 30° E.

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Chains.
  21.40
               Escalante and Coyoto wagon road, bears N. 60° W.
                  21.76
                 boundary line marking on west side of road, 18 ins. in ground to rock, with mound of stone 4
                  ft. base, 2 ft. high, around same, marked
                     RESERVE in N. E. and N. W. quadrants.
              No bearing trees available; begin ascent, bears N. 60° W. and S. 30° E. Top of 60 foot ascent, bears N. 60° W. and S. 30° E. At the 4 sec. corner between secs. 5 and 32.
  24.50
  40.06
              Eand, hilly and level.
Soil, sandy and rocky; 4th rate, with exception of irrigated field in creek bottom, which is 2nd
                  rate.
               Timber, scrubby pine, pinion and cedar.
                                                                       June 20, 1904:
                 The 21:From corner of secs. 4, 5, 32 and 35, at 7hlm l.m.t., I set off 37°48'30" on latitude are and 23°28' N. on the declination are, and
               June
                                                                     32 and 33, at
                  establish meridian with the solar. Magnetic
                  declination 15°50'.
               Thence I run
              East on random retracement line between secs. 4
                  and 33.
              No trace of old corner can be found. I therefore set temporary stake for \{\} sec. corner and continue
 40.00
 80.00
              No trace of sec. corner can be found, and after
                 23 hours diligent search I set stake for tempor-
              ary corner of secs. 3, 4, 33 and 34, and continue east from isame, between secs. 3 and 34.
No trace of & sec. corner can be found. I set temporary stake for & sec. corner and continue
120.00
                 east.
              No trace of corner of secs. 2, 3, 34 and 35 being
160.00
                 found. I set stake for temporary corner and con-
                 tinue east between secs. 2 and 35.
              Corner of secs. 2, 3, 34 and 35, which is a sand-
stone 8x3x10 ins. above ground, marked and wit-
nessed as described in notes of General Land Of-
179.90
                 fice, boars North, 158 1ks. dist.
                                                                        On account of
                 of such discrepancy in measurement I continue east on my original line without change of measurement or alignment, and at
               Intersect N. and S. 4 sec. line 2.11 chs. south of
196.00
                 $ sec. corner between secs. 2 and 35.
              Note: Owing to fact that General Land Office notes call for corners with pits and mounds and fur-
                 ther that there is no place on this entire line
                 where bearing trees are not available, also that a resident of Escalante who claims to have helped Mr. Luman make the original survey, states that Luman ran the two miles east between secs. 6 and 31 and 5 and 32 and then came east and brought
                up line from the south to corner of Tps. 34 and
                  35 S., Rs. 1 and 2 E., and ran west 2 miles be-
                 twoon secs. 1 and 36 and 2 and 35 and failed to
                 connect the line by two intervening miles. assumption is that the missing corners were never set. I therefore proceed to establish
              lost corners by using proportionate measurements for the full 2 miles from corner of secs. 4, 5,
                  32 and 33 to the a sec. corner between secs. 2
                  and 35, which is 4 chains short of 25 miles dis-
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Chains.

16.10

26.80

33.00 39.20

regarding corner of secs. 2, 3, 34 and 35, 19.90 chs. out of place by measurement, except for alignment, making an angle in my line at this corner and setting a boundary post at the place for corner of secs. 2, 3, 34 and 35, by proportional distance for the 25miles, but marking same as boundary post only. Falling at corner of secs. 2, 3, 34 and 35, being 1.58 chs. south and at \(\frac{1}{4} \) sec. corner between secs. 2 and 35 being 2:11 chs. south, the difference 53 lks. for the distance of (196° - 179.90) 16:10 chs. gives bearing of \$588°07' W. for first 16:10 chs. of the return course. The falling of 1.58 chs. 5. for distance of 179.90 chs. gives bearing of 1.79.90 chs. gives bearing of 1.79.90 chs. gives bearing of distance of 179.90 chs. gives bearing of S. 89°30' W. for balance of return course. regarding the corner of secs. 2, 5, 34 and 35 gives shortage of 4 chs. in dist. for $2\frac{1}{3}$ miles, or proportional shortage of 80 lks. to the halfmile.

June 21, 1904.

June 22:

Thence from the 1 sec. corner between secs. 2 and 35, I run S. 88°07' W. on true line between secs. 2 and 35,

through timber along N. slope of hill. 2.00 Draw, 5 lks. wide, course N.; begin ascent N. W.

and S. E. Top of 150 foot ascent, bears N. 20° W. and S.20°E. 12.50

Begin descent. At corner of secs. 2, 3, 34 and 35, which is a sandstone 8x3x10 ins. above ground, marked and

witnessed as described in notes of General Land Office. Thence I continue on same measurement, changing

bearing to S. 89°30' W. Base of 350 foot descent, bears N. 20° W. and S. 20° E. Draw in canyon, 20 lks. wide, course S. 20° E. Begin abrupt ascent, bears N. 20° W. and S. 20° E.

Top of 250 foot ascent, bears N. 20° W. and S. 20° E. Set U. S. Forest Reserve Boundary Post No. 12, 1 ft. in ground to solid rock and build mound of stone, 5 ft. base, 2½ ft. high, around same for

boundary marking, marked RESERVE on N. W. and N. E. quadrants, from which

bears N. 62° E., A pinion, 18 ins. diam., 102 lks. dist., marked RESERVE B P No. 12 B T
A pinion, 14 ins. diam., bears N. 8° W., 65
lks. dist., marked RESERVE B P No. 12 B T

Note: This post is set in the proper place by proportional measurement for corner of secs. 2, 3, 34 and 35, but is not marked for corner, as corner on accepted survey is 19.90 chs. east of this point, and I am not authorized to change

Land, mountainous and precipitous.

Soil, rocky, 4th rate.

Timber, scrubby pine, pinion and cedar.

From boundary post No. 12, which is in correct place for corner of secs. 2, 3, 34 and 35, I run S. 89°30' W. on true line between secs. 3 and 34 through timber.

Begin descent, bears N. W. and S. E. Begin precipitous descent, bears N. 55° W. and 4.00 22.00

S. 55° E.

South Boundary T. 34 S., R. 1 E.

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Chains.
                   Base of 250 foot descent, bears N. 55° W. and S. 55° E. Draw, 20 lks. wide, course S. 55° E. Begin precipitous ascent, bears N. 55° W. and S. 55° E.
   32.00
   38.00
                   Top of 200 foot abrupt ascent, bears N. 60° W. and
                   S. 60° E. Continue steep ascent.

After further search for \(\frac{1}{4}\) corner and failing to find same or to find any blaze or axe sign on the entire line, I set a sandstone 18x8x3 ins.
   39.20
                      12 ins. in the ground, and build mound of stone 3 ft. base, 2 ft. high, 2 ft. north of corner,
                      for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. side, from
                      which
                  A pinion, 10 ins diam., bears N. 68° E., 40 lks. dist., marked RES ½ S 34 B T
A pinion, 10 ins diam., bears S. 14° E., 32 lks. dist., marked ½ S 3 B T

Top of ascent 250 ft. above draw, thence along N.
   40.30
                      slope of hill.
                  Draw, 10 lks. wide, course N.

Draw, 10 lks. wide, course N. 30° E. Begin ascerbears N. 30° E. and S.

Top of 250 foot ascent, bears N. W. and S. E.

Set 0. S. Forest Reserve Boundary Post No. 11, 2
   47.30
   49.00
                                                                                            Begin ascent.
   67.00
   78.40
                      ft. in ground and build mound of stone, 4 ft.
                      base, 12 ft. high, around same for corner of secs. 3, 4, 33 and 34, marked RESERVE in N. E. and N. W. quadrants,
                            R 1 E S 3 in S. E. quadrant,
                            T 35 S S 4 in S. W. quadrant, with 3 notches on E. and W. sides, from which
                            A cedar, 15 ins diam., bears N. 56° E., 66 lks. dist., marked RES T 34 S R 1 E S
                                BT
                            A pinion, 8 ins. diam., bears S. 46° E., 41 lks. dist., marked T 35 S R l E S 3 B T A cedar, 8 ins. diam. bears S. 75° W., 20 lks. dist., marked T 35 S R l E S 4 B T A pinion, 10 ins. diam. bears N. 20° W., 53
                                lks. dist., marked RES
                                                                             T 34 S R 1 E
                  Land, mountainous and precipitous.
                  Soil, rocky, 4th rate.
                  Timber, pinion, cedar and pine.
                  From corner of secs. 3, 4, 33 and 34, I run South 89°30' W., on true line between secs. 4 and
                      33, through timber, descending, bears N. and S.
                  Draw, 5 lks. wide, course S. W.
Base of 300 foot descent, bears N. and S., at a lo lks. wide, course S.; begin ascent, bears
   15.00
   17.60
                      N. and S.
   22.00
                  Top of 40 foot ascent, bears N. and S.
                                                                                                Begin
                      descent.
                  Base of 100 foot descent, bears N. W. and S. E.
   33.40
                  Dry wash in open hollow, 20 lks. wide, 12 foot
   35.40
                      banks, course S. E.
                  Set a sandstone 18x10x6 ins., 12 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from
   39.20
                      which
                            A cedar, 10 ins. diam., bears N' 28°45' E., 243 lks. dist., marked RES & 33 B T A pine, 24 ins. diam., bears S. 9°30' E., 352 lks. dist., marked & S 4 B T
                  Begin ascent, bears N. W. and S. E. Top of 100 foot ascent, bears N. W. and S.; begin
   40.50
   56.40
                      descent. Local attraction marked at this point,
```

AQUARIUS FOREST RESERVE BOUNDARY.

South Boundary T. 34 S., R. 1 E.

Chains. hemitite stone in evidence. Base of 75 foot descent, bears N. W. and S. E. Liston's parture fence, bears N. 20° W. and S. 20° E. 69.00 73.00 Enter Liston's claim. V
Begin descent, bears N. and S.
Corner of secs. 4, 5, 32 and 33. 76.00 78.40 Land, mountainous. Soil, rocky, 4th rate. Timber, pine, pinion, spruce and cedar, mostly inferior. Note: A comparison of the notes furnished by the General Land Office with these notes, together with the fact that no blazes nor any sign of chopping can be found and that notes call for corners with pits and mounds, proves conclusively that survey has never been made as reported. June 22, 1904. June 23: At 7h2m 1.m.t., at ½ sec. corner between secs. 2 and 35, I set off 37°48'30" on latitude arc and 23°27'30" N. on the declination arc and establish a meridian with the solar. Magnetic declination 15°45'. Thence I run East on random retracement line between secs. 2 and Intersect N. and S. sec. line 61 lks. N. of corner to secs. 1, 2, 35 and 36, which is a sandstone 10x3x18 ins. above ground, set on solid rock in mound of stone, marked and witnessed as described in notes of General Land Office. 39.03 Thence from corner of secs. 1, 2, 35 and 36, I run N.89°06' W. on true line between secs. 2 and 35, through timber. .03 Set U. S. Forest Reserve Boundary Post No. 13 on solid rock, with mound of stone, 5 ft. base, 31 ft. high, around same, marked RESERVE in N. W. and N. E. quadrants. Dry wash, 5 lks. wide, course S. E. Begin ascent, bears N. W. and S. E. Top of 50 foot ascent, bears N. W. and S. E. 9.00 11.50 15.50 Begin descent from south nose of rock cliff, bears 23.50 N. W. and S. 80° E. Wash in ravine, course S. E., base 150 foot descent, bears N. 70° W. and S. 70° E. 29.50 Draw, 10 lks. wide, course S. 80° E., begin ascent, bears N. 80° W. and S. 80° E.
At the ‡ sec. corner between secs. 2 and 35. 33.50 39.03 Land, mountainous and broken. Soil, rocky, 4th rate. Timber, pinion and cedar, small. At corner of secs. 1, 2, 35 and 36, at 12h2m l.m.t. I set off 23°27' N. on the declination arc and observe sun on meridian and obtain reading of 37°48'30on latitude arc. From the corner of secs. 1, 2, 35 and 36, I run East on a random retracement line over level plateau through small timber.

Intersect N. and S. \(\frac{1}{4}\) sec. line 147 lks. S. of \(\frac{1}{2}\)

sec. corner, which is a sandstone 10x3x8 ins. 39.92

above ground, marked and witnessed as described in notes of General Land Office, with exception of AQUARIUS FOREST RESERVE BOUNDARY.

South Boundary T. 34 S., R. 1 E.

Chains pinion, 10 ins. diam., which bears N. 54° E., 56 lks., instead of pinion, 10 ins. diam., bears N. 5° E., 36 lks., as called for in notes. Thence I run

S. 87°54' W. on true line between secs. 1 and 36, ascending, bears N. and S., through timber.

Top of ascent 50 ft. above ½ sec. corner, bears 2.00 N. and S., thence over level plateau. At corner of secs. 1, 2, 35 and 36. 39.92 From ½ sec. corner I run East on random retracement line between secs. 1 and 36, descending, bears N. and S.
Intersect N. and S. range line 4 lks. south of corner of Tps. 34 and 35 S., Rs. 1 and 2 E., which is a sandstone 12x2x20 ins. above ground, marked and witnessed as described in notes of General Land 39.08 Office. Thence from township corner above described I run S. 89°57' W. on true line between secs. 1 and 36, through timber along steep north slope of hill.

I set U. S. Forest Reserve Boundary Post No. 14,

I ft. in ground to solid rock and build mound of

stone, 4 ft. base, 2 ft. high, around same, for

marking of reserve boundary line, marked

RESERVE in N. W. quadrant; no other marking.

Begin descent, bears N. 80° E. and S. W.

Base of 180 foot descent at raying course N. .03 16.50 26.50 Base of 180 foot descent at ravine, course N. Base of 180 1000 descent 20 12....,
Begin ascent, bears N. and S.
Head of ravine, course N. E.
At the 2 sec. corner between secs. 1 and 36.
June 23, 1904 32.50 39.08

GENERAL DESCRIPTION.

T. 34 S., R. 1 E., is mountainous, sloping generally to the S. E. from the Aquarius Plateau, which is in the northwest corner. Liston ranch and house lies principally in sec. 52 and is irrigated from Birch Creek and small branch which heads in sec.

1, T. 35 S., R. 1 W. There are some lands northwest of Liston's which could be cultivated, but owing to water supply could not be settled upon. North Creek runs through the N. E. portion of township and is bold stream of water, though bottoms are narrow and canyon deep and water right is taken below by Riddles Mill, which is at junction of Birch and North Creeks in T. 35 S., R. 2 E. Timber in township is nearly all small, though along creeks and draws is some pine timber large enough for lumber, and an old saw mill was located some years ago about in sec. 30. Very little grass, and township is of little value. The needle and surface indications show presence of iron in sec. 35, though of a poor quality I think, and lying in sandstone formation.

North through T. 34 S., between Rgs. 1 and 2 E.

June 24: Chains From corner of Tps. 34 and 35 S., Rs. 1 and 2 E., Salt Lake Meridian, which is a sandstone 12x2x10 ins. above ground, marked and witnessed as described in notes of General Land Office, at 7^h2^m 1.m.t., a.m., I set off 37°48'30" on latitude arc and 23°26'30" N. on declination arc and North on true line between secs. 31 and 36, through scrubby pine and cedar timber, over rocky mountainous land, gradually descending; magnetic declination 15°57' E. 4.80 Begin precipitous descent, bears N. 70° W. and S. 70° E., over sandstone ledges. Base of 500 foot descent, bears W. and S. 70° E. Dry branch in canyon, course S. 70° E.; 50 lks. west of this point is forks of canyon from S. W. 18.00 20.20 and from N. W. Begin abrupt ascent, bears N. W. and S. 70° E. Top of rocky cliff 350 ft. above branch, bears N. 60° W. and S. 60° E. Continue ascent. Mark cross (X) on flat sandstone ledge in place 22.00 37.30 40.00 for \$ sec. corner, marked \$ on W. side of cross, with mound of stone, 4 ft. base, 3 ft. high, 3 ft. west of corner from 4 corner; from which A cedar, 10 ins. diam., bears N. 36°30' E., 23 lks. dist., marked ½ S 31 B T A pinion, 16 ins. diam., bears S. 66° W., 12 lks. dist., marked RES ½ S 36 B T Dry wash, course S. 20° W. 42.50 More abrupt ascent, bears N. E. and S. W. Sharp break off at east end of sand rock ledge, 45.00 51.50 bears west 3 lks. Head of same wash, course S. 20° E. 54.50 61.00 Top of ascent on east end of ridge 100 ft. above a sec. corner. Begin abrupt descent over ledge, bears N. 40° W. and S. 40° E. Set U. S. Forest Reserve Boundary Post No. 15 i 66.70 80.00 solid rock and build mound of rock, 5 ft. base, 4 ft. high, around same for corner of secs. 25, 30, 31 and 36, marked with 1 notch on S. and 5 notches on N. sides, RESERVE on N. W. and S. W. quadrants, T 34 S S 30 on N. E. quadrant, R 2 E S 31 on S. E. quadrant, from which a Pinion, 18 ins. diam., bears N. 48° E., 32 lks dist., marked T 34 S R 2 E S 30 B T Pinion, 12 ins. diam., bears S. 64° E., 14 lks dist., marked T 34 S R 2 E S 31 B T Pinion, 12 ins. diam., bears N. 76° W., 52 lks dist., marked RES T 34 S R 1 E S 25 B T No other trees available. Corner falls on bench on N. E. slope of hill, 250 ft. below summit. Timber, scattering small cedar and pinion. Land, mountainous, rocky ledges, Soil, 4th rate.

At 2^{m6s} after noon 1.m.t. I set off 23°25'30" N. on the declination arc and observe the sun on moridian and obtain latitude of 37°49', which agrees with other data.

AQUARIUS FOREST RESERVE BOUNDARY.

North through T. 34 S., between Rs. 1 and 2 E.

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From corner of secs. 25, 30, 31 and 36, I run
North on true line between secs. 25 and 30, over
Chains.
                    rocky mountainous land.
                Precipitous descent, bears N. W. and S. E. Road, bears N. 60° W. and S. 60° E., at base of 200 foot descent.
   .80
7.40
                North creek, 15 lks. wide, 8 ins. deep, clear fresh water, course S. 60° E. for about 10 chs., then turns more to the south.
   9.30
 15.00
                Begin abrupt rocky ascent, bears N. 60° W. and
                    S. 60° E.
                Top of 300-foot eliff, bears N. 50° W. and S. 50° E Dry wash, course S. 20° W.
 22.05
 32.50
                Begin abrupt ascent over sandstone rock ledge,
 34.00
                    bears E. and W.
 38.10
                Top of 150-foot ascent, bears S. 40° W. and S. 60° E.
                    continue gradual ascent.
                Set sandstone 26x12x5 ins., 18 ins. in the ground for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from which A codar, 10 ins. diam., bears N. 42° E., 87 lks. dist., marked \frac{1}{4} S 30 B T

A pinion, 14 ins. diam., bears N. 87° W., 57 lks. dist., marked RES \frac{1}{4} S 25 B T
 40.00
                June 24, 1904.
June 25: At 7h2m a.m., I set off 37°49'30" on
latitude arc and 23°25'15" N. on declination arc
                    and continue north.
45.00
                Top of ridge 30 ft. above \frac{1}{4} sec. corner, bears
                   N. 80° E. and W., begin gradual descent.
                Begin abrupt descent, bears E. and W. Base of rocky descent in gulch, flows E., begin
 50.70
 54.00
                   abrupt ascent.
               Top of 100 ft. ascent, bears E. and W. Vertical ascent of 25 ft. up sand rock ledge, bears N. 80° E. and S. 80° W., continue gradual ascent. Top of east end of 100-foot ridge, begin gradual
58.70
65.90
70.50
               descent, bears N. W. and S. E. Set, U. S. Forest Reserve Boundary Post No. 16 on
80.00
                   solid rock and build mound of stone, 5 ft. base, ft. high, around same, for corner of secs. 19, 24
                   25 and 30, marked
                         T 34 S S 19 in N. E. quadrant
R 2 E S 30 in S. E. quadrant
RESERVE in S. W. and N. W. quadrants, with 2
                            notches on S. and 4 notches on N. sides,
                             from which
                        A Pinion, 8 ins. diam., bears N. 59°15' E., 1ks. dist., marked T 34 S R 2 E S 19 B T A pinion, 10 ins. diam., bears S. 79° E., 77 lks. dist., marked T 34 S R 2 E S 30 B T A pinion, 6 ins. diam., bears S. 52° W., 29 lks. dist., marked RES T 34 S R 1 E S 25
                         A pinion, 14 ins. diam., bears N. 77°30' W., 4 lks. dist., marked RES T 34 S R 1 E S 24
               Timber, scrubby pine, pinion and cedar. Land, mountainous and precipitous, with canyons cut
                  through sandstone ledges.
               Soil, rocky, sandy, 4th rate.
               At 12h2m19s 1.m.t., I set off 23°24'15" N. on declination are and observe sun on meridian and
                   obtain a reading of 37°50' on latitude arc, which
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agrees with other data.

AQUARIUS FOREST RESERVE BOUNDARY.

North through T. 34 S., between Rs. 1 and 2 E.

```
From corner of secs. 19, 24, 25 and 30, I run
North on true line between secs. 19 and 24, over
mountainous land through small timber.
Chains.
                 Begin precipitous descent, bears N. W. and S. E.
Base of 100 foot descent in ravine, course S. 70° E.
Begin abrupt ascent, bears N. 70° W. and
S. 70° E.
      .50
   4.00
                 Top of 100 foot ascent, bears E. and S. W. Begin abrupt descent, bears N. W. and S. E.
   7.50
 15.00
                 Base of 200 foot descent at ravine, course S. 60° E. begin abrupt ascent, bears N. 60° W. and S. 60° E.
 20.50
                S. 60° E.
Top of cliff 300 ft. above ravine, bears N. 70° W. and S. 50° E.; continue gradual ascent.

Set a sandstone 26xl0x8 ins. 18 ins. in the ground for ½ sec. corner, marked ¼ on W. face, from which A pinion, 18 ins. diam., bears N. 60°30' E., 48 lks. dist., marked ¼ S 19 B T

A pinion, 14 ins. diam., bears N. 72°30' W., 69 lks. dist., marked RES ¼ S 24 B T
 35.80
 40.00
                                                                            June 25, 1904.
I set off 37°50'30"
                June 28: At 8h3m a.m., l.m.t., I set off 37°50'30" on latitude arc and 23°18'15" N. on the declina-
                    tion are and continue north.
                Top of ridge, 300 ft. above ravine, bears N. W. and S. E., thence along E. slope of ridge. Strong local attraction of the magnetic needle
45.00
                    along this ridge.
53.00
                Begin descent, bears W. and S. E.
62.50
                Base of 80-foot descent, bears E. and S. W.
                Draw, course S. W.
Draw, course S. 20° E.
Draw, course S. 20° W.
and S. 20° W.
64.00
72.00
                                                             Begin ascent, bears N.20°E.
                Top of 100-foot ascent on round butte.
Set U. S. Forest Reserve Boundary Post No. 17, 1
foot in ground to solid rock and build mound of
80.00
                    stone 5 ft. base, 3\frac{1}{2} ft. high around same, for corner of secs. 13, 18, 19 and 24, marked RESERVE in N.E., N.W. and S.W. quadrants, T 34 S R 2 E S 19 in S. E. quadrant, with
                              3 notches on north and south sides, from
                              which
                              pinion, 10 ins. diam., bears N. 3845' E., 30 lks. dist., marked RES T 34 S R 2 E S 18
                          A pinion, 10 ins. diam.
                          A pinion, 12 ins. diam., bears S. 42°30' E.
                          lks. dist., marked T 34 S R 2 E S 19 B T A pinion, 8 ins. diam., bears S. 32°15' W.,
                             lks. dist., marked RES T 34 S R 1 E S 24
                         A pinion, 10 ins. diam.,
                              pinion, 10 ins. diam., bears N. 75° W., lks. dist., marked RES T 34 S R 1 E
               Much local attraction in this latter half of this
                   mile and rock shows iron stain.
               Timber, small cedar and pine.
               Land, mountainous and hilly.
                Soil, rocky and sandy, 4th rate.
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At last described corner at 12h3m 1.m.t., I set off 20°17'15" N. on the declination are and observe sun on meridian and obtain a reading on latitude arc of 37°51', which agrees with other data.

ACUARIUS FOREST RESERVE ECUIDARY.

Through T. 34 S., R. 2 E.

Chains	. From corner of secs. 13, 18, 19 and 24 of T. 34 S.	
	ro. rand c. r. Trun	1
	East on true line through small pinion and cedar timber over rolling rocky land.	
1.50	Begin descent, bears H. and S. T.	
5.00	Base of 50- foot descent at draw course s 200 m	
15.00	UCKIN STANDAL ASCENT:	
20.00	Top of 50-foot ascent, bears N. 20° 7. and S. 20° 1 Begin gradual descent.	Ξ
33.70	Base of 200-foot descent, bears H. W. and S. E.	
36.30	navine, course S. E.	1
20.20	Draw, 10 lks. wide, course S. 20° E.; begin ascent, bears N. 20° W. and S. 20° E.	,
39.13	The theoretical distance allowing for convergen-	
	y from the 7th Standard Parallel South)	1
	Set a sandstone $18 \times 8 \times 4$ ins. 6 ins. in the ground	4
	to solid rock and build mound of stone around same for a sec. corner, marked and N. face,	1
	irom which	1
	A pinion, 18 ins. diam., bears N. 50° W., 18	1
	lks. dist., marked RES & S 18 B T	,
	A pinion, 14 ins. diam., bears S. 21° E., 77 lks. dist., marked \$ S 19 B T	1
39.50	Side nill wash, course S. W., with a 20-foot wall	-
57.50	on west side.	- Company
62.00	Top of 150 ft. ascent, bears N. and S. 20° E. Begin abrupt descent, bears N. 20° W. and S. E.	-
64.00	Draw, course N., at base of 50-foot descent, begin	
60 70	ascent, bears N. E. and S. W.	į
69.70 70.50	Top of 50 foot ascent on north slope of spur. Begin abrupt descent, bears N. W. and S. 70° E.	-
76.00	Base of 100 foot descent, in open flat, boars	Total Control
	N. 80° W. and S. 80° E.	-
79.13	Set iron U. S. Forest Reserve Boundary Post No. 18	3
	l foot in ground to solid rock and build round of stone, 4 ft. base, 3 ft. high, around same for	[;
	corner of secs. 17, 18, 19 and 20, marked	-
	RESERVE in N. V. and N. E. quadrants.	1
	R 2 E S 20 in S. E. quadrant, T 34 S S 19 in S. W. quadrant, with 3 notch-	į
	es on south and 5 on east sides, from	1
	which	1
	A pinion, 12 ins. dism., bears N. 85° E., 49 lks. dist., marked RES T 34 S R 2 E S 17	i
	ВТ	1
	A pinion, 8 ins. diam., bears S. 76° E., 78 lks. dist., marked T 34 S R 2 E S 20 B T A pinion, 12 ins. diam., bears S. 72° W., 102	1
	lks. dist., marked T 34 S R 2 E S 20 B T	1
	lks. dist., marked T 34 S R 2 E S 19 B T	,
	No other trees available.	,
	Timber, small cedar and pinion.	ı
	Land, hilly and mountainous. Soil, rocky and sandy, 4th rate.	
	Too much local attraction to determine magnetic	
	declination.	
	June 28, 1904.	
	June 29: From corner of secs. 17, 18, 19 and 20, at 7 ^h 3 ^m a.m., I set off 37°51' on latitude arc	
	and 23°15'45" N. on the declination arc and run	
	east on true line between secs. 17 and 20,	
	through north edge of timber skirting aspen flat which lies on the north.	ı
3.77	Pinion tree, 12 ins. diam., on line, I mark with	
	two notches on E. and W. sides.	1
4.90	Small wash, 10 lks. wide, course S. 60° E.	í

AQUARIUS FOREST RESERVE BOUNDARY.

T. 34 S., R. 2 E.

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Chains.
  8.30
             Same wash, course N. E. into flat.
 15.90
             Leave timber, enter open sage brush flat, bears N. 85° W. and S. 85° E.
             Wash, 10 lks. wide, 10 ft. deep in open flat,
 37.80
                course S.
             Set a sandstone 20x14x8 ins. 15 ins. in the ground for \frac{1}{4} sec. corner, marked \frac{1}{4} on N. face, from
 40.00
               Which
                    A pine, 28 ins. diam., bears N. 6°30' E., 242
                       lks. dist., marked RES 1/2 S 17 B T
                    No other trees available; dig pits 18x18x12
                      ins., 3 ft. E. and W. of stone, and raise mound of earth 3 ft. base, l_{8}^{1} ft. high N.
               of corner.
 43.40
            Leave open flat, enter timber, and begin ascent,
                bears N. and S.
 54.37
             40-foot vertical ascent, bears N. and S.
               spring of alkali water at base of ledge, bears N.
            50 lks. dist., and drain to the W.
Top of 150 foot ascent, bears N. 20° W. and S. 20° E.,
thence across level timbered plateau.
65.00
78.20
            Head of ravine, course S.
80.00
            Set U. S. Forest Reserve Boundary Post No. 19 on
               solid rock, with mound of stone, 5 ft. base, 32
               ft. high, around same, for corner of secs. 16, 17
               20 and 21, marked RESERVE in N. E. and N. W. quadrants,
                   R 2 E S 21 in S. E. quadrant,
T 34 S S 20 in S. W. quadrant, with 3 notches on S. and 4 on E. sides, from which
A double pinion, 10 ins. diam., bears N. 55° E.,
22 lks. dist., marked RES T 34 S R 2 E
                      S 16 B T
                   A pinion, 12 ins. diam., bears S. 64°30' E.
                      109 lks. dist., marked T 34 S R 2 E
                   A cedar, 14 ins. diam., bears S. 57° W., 92 lks. dist., marked T 34 S R 2 E S 20 B T A pinion, 14 ins. diam., bears N. 69° W., 48 lks. dist., marked RES T 34 S R 2 E S 17
            Timber, small cedar, pinion and pine.
            Land, level and mountainous.
            Soil, 3rd and 4th rate.
           At corner of secs. 16, 17, 20 and 21, at 12h3m88, 1.m.t., I set off 23°14'15" N. on the declination
               arc and observe sun on meridian and obtain a
              reading of 37°51' on latitude arc, which agrees
              with other data.
           From corner of secs. 16, 17, 20 and 21, T. 34 S.
              R. 2 E., I run
           East on true line, magnetic declination 16°10' E., over level timbered plateau.

Begin abrupt descent, bears N. and S. 20° E.

Base of 70 foot descent, bears N. 20° W. and
12.00
17.50
              S. 20° E.; leave timber, enter sage flat, same
19.40
           Draw, 4 lks. wide, 20 ft. deep, with 6-inch stream
               of alkali and iron water, course S. E.
           Leave sage flat, enter timber and begin ascent, bears N. W. and S. E.
21.20
           Top of 100 foot ascent on south slope of spur. Begin descent, bears N. 20° E. and S. 80° N. Base of 70-foot descent at draw, 10 lks. wide,
29.00
30.00
35.20
              course S.; begin ascent, bears N. and S. 20°
39.90
           Top of 50-foot ascent, on south slope of spur.
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Chains
                Set a sandstone 22x12x8 ins. 8 ins. in the ground
 40.00
                    to solid rock and build mound of stone around same for { sec. corner, marked { on N. face, from
                    which
                          A cedar, 20 ins. diam.
                                                                      bears N. 4°30' W., 46
                             lks. dist., marked RES 1 S 16 B T
                A pinion, 8 ins. diam., bears S. 37° 30' W. 39 kks. dist., marked \( \frac{1}{4} \) S 21 B T

Begin descent, bears N. 20° E. and S. 20° W.

Base of 110-foot descent and leave timber, enter sage flat, bears N. 20° E. and S. 20° W.
40.20
49.00
 53.00
                Leave suge flat, enter timber and begin ascent,
                bears N. 20° E. and S. 20° W.
Top of 80-foot ascent, bears N. 20° E. and S. 20° W.
 60.00
                Begin descent over 50-foot vertical ledge, bears N. 20° E. and S. 20° W.
 62.68
                Base of 200-foot descent at draw, 10 lks. wide, course S. 20° W., begin ascent, bears N. 50° E. and S. 20° W. At this draw formation changes from
 71.30
                    sandstone to black trachite and lava boulder for-
                   mation.
               Top of 50-foot ascent, bears N. 20° E. and S. 20° W., thence along level bench.

Set U. S. Forest Reserve Boundary Post No. 20 18 ins. in the ground to solid rock and build mound of stone, 4 ft. base, 2 ft. high, around same for corner of secs. 15, 16, 21 and 22, marked RESERVE in N. E. and N. W. quadrants,
77.30
80.00
                         R 2 E S 22 in S. E. quadrant,
T 34 S S 21 in S. W. quadrant, with 3 notches
on S. and 3 on E. sides, from which
                         A pinion, 12 ins. diam., bears N. 72° E., lks. dist., marked RES T 34 S R 2 E
                        A pinion, 8 ins. diam., bears S. 62°30' E., 3 lks. dist., marked T 34 S R 2 E S 22 B T A pinion, 8 ins. diam., bears S. 46° W., 115 lks. dist., marked T 34 S R 2 E S 21 B T A pinion, 10 ins. diam., bears N. 14°30' W., 52 lks. dist., marked RES T 34 S R 2 E
                             S 16 B T
               Timber, small pinions, cedar and pine. Land, mountainous and broken.
               Soil, rocky and sandy. 4th rate.
                                                                                June 29, 1904
               June 30: From corner of secs. 15, 16, 21 and 22, T. 34 S., R. 2 E., at 7<sup>h</sup>3'20" 1.m.t., I set off 37°51' On the latitude arc and 23°12'30" N. on
                   the declination arc, and run
               East on true line between secs. 15 and 22, through
                  small pinion and cedar timber, over hilly land covered with trachite boulders, magnetic declination 16°20' E. Ascending, bears N. and S.
              Small draw, 10 lks. wide, course S. W. Top of ascent, 150 ft. above sec. corner, on south
  3.00
21.28
                   slope of ridge; begin abrupt descent, bears
                  N. 20° E. and S. 20° W. At this point I erect
                   a signal for test sight from the east.
               Base of 50-foot descent at draw, course S.; begin
23.50
               ascent, bears N. and S.
Top of 50-foot ascent and begin descent over 50-
foot vertical sandstone ledge, bears N. 20° E.
34.00
                   and S. 20° W.
               Base of 90 foot descent at draw, course S.; begin
39.90
                   gradual ascent, bears N. W. and S. E.
40.00
               Set trachite boulder 18x12x8 ins., 12 ins. in the
```

```
Chains
                     ground for 4 sec. corner, marked 4 on N. face,
                     from which
                           A cedar, 14 ins. diam.
                                                                       bears R. 10°30' E..
                 51 lks. dist., marked RES $ 5 15 B T
A cedar, 12 ins. diam., bears S. 50° E., 10
lks. dist., marked $ 5 22 B T
Draw, 10 lks. wide, course S. 20° W.
  47.50
                 Top of 40 foot ascent, on south slope of spur; thence over rolling surface, along south slope
  54.00
                     of spur.
  61.00
                 Draw, 8 lks. wide, course S.
                 Strong local attraction.
 64.00
                Set U. S. Forest Reserve Boundary Post No. 21, 18 ins. in the ground to solid rock and build mound of stone, 4 ft. base, 2 ft. high, around same, for corner of secs. 14, 15, 22 and 23, marked RESERVE in N. E. and N. W. quadrants,
 80.00
                    R 2 E S 23 in S. E. quadrant
T 34 S S 22 in S. W. quadrant, with 3 notches
on south and 2 on east sides, from which
                          A cedar, 12 ins. diam., bears N. 46°30' E.,
                               lks. dist., marked RES T 34 S R 2 E S 14
                         A cedar, 14 ins. diam., bears S. 29° E., 19 lks. dist., marked T 34 S R 2 E S 23 B T A pinion, 8 ins. diam., bears S. 45° W., 73 lks. dist., marked T 34 S R 2 E S 22 B T A cedar, 10 ins. diam., bears N. 30° W., 14 lks. dist., marked RES T 34 S R 2 E S 15 B m
                             BT
                Timber, scrubby cedar, pinion and pine.
                Land, mountainous, broken and rolling.
                Soil, rocky and sandy, 4th rate.
               At this corner at 12h3m20s 1.m.t. I set off 23°11'
                   N. on the declination arc and observe sun on the
                   meridian and obtain a reading of 37°51' on lati-
                   tude arc, which agrees with other data.
               From corner of secs. 14, 15, 22 and 23, T. 34 S.,
               R. 2 E., I run
East on true line between secs. 14 and 23, over
               rolling rocky land, through timber. Begin gradual descent, bears N. E. and S. W.
  5.00
               Draw, 10 lks. wide, course S. E.
39.70
               Set trachyte boulder 18x10x8 ins., 12 ins. in the
40.00
                   ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face,
                   from which
               A pinion, 20 ins. diam., bears N. 48°15' W.,
53 lks. dist., marked RES $ $ 14 B T

A pinion, 18 ins. diam., bears S. 22° E., 15
lks. dist., marked $ $ 25 B T

Base of 250 foot descent, bears N. 20° W. and
S. 20° E. Draw, 15 lks. wide, course S. 20° E.,
begin ascent, bears N. 20° W. and S. 20° E.
Side hill wash, course S. W.
Top of 120-foot ascent, bears N. and S., thence over
42.50
47.50
60.00
               rolling land.
Draw, 10 lks. wide, course S. W.; begin gradual
67.00
               ascent, bears N. and S. W.

Draw, 10 lks. wide, course S. 60° W.

Top of 180-foot ascent, bears N. and S.

Set 70° S. Forest Reserve Boundary Post No. 22, 22

ft. in ground, with mound of stone, 3 ft. base,
1 ft. high around same, for corner of secs. 12, 14,
71.50
76.50
80.00
                   23 and 24, marked
               RESERVE on N.E. and N. W. quadrants,
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```
R. 2 E., S. 24 in S. E. quadrant,
T. 34 S., S. 23 in S. W. quadrant, with 3
notches on south and 1 on east sides, from which
Chains.
                      A pinion, 10 ins. diam., bears N. 85° E., 94 lks. dist., marked RES T 34 S R 2 E S 13
                          BT
                         pinion, 8 ins. diam., bears S. 65° E., 16 lks. dist., marked T 34 S R 2 E S 24 B T cedar, 10 ins. diam., bears S. 19°30' W., 39 lks. dist., marked T 34 S R 2 E S 23
                      A pinion.
                      A cedar, 10 ins. diam.
                      A pinion, 8 ins. diam., bears N. 32°30' W.,
                          103 lks. dist., marked RES T 34 S R 2 E
                          S 14 B T
              Timber, scrubby pinion, cedar and pine.
              Land, mountainous and rocky.
              Soil, sandy and rocky, 4th rate.
                                                                         June 30. 1904.
              July 1:
             From corner of secs. 13, 14, 23 and 24, at 7h51 a.m., I set off 37°51' on latitude arc and
                 23°08'30" N. on declination are and run
             East on true line between secs. 13 and 24, magnetic declination 16°30' E., through small timber, over rolling land, gradually ascending, bears
                N. and S.
10.00
              Top of gradual ascent, 30 ft. above sec. corner,
                 bears N. and S. Thence over level surface.
32.50
             Begin descent, bears N. and S. 20° E. Set trachyte boulder 20x10x8 ins., 15 ins. in the
40.00
                 ground, for 1/2 sec. corner, marked 1/4 on N. face,
                 from which
                      A cedar, 10 ins. diam., bears N. 59° W., 19 lks. dist., marked RES & S 13 B T
A pinion, 10 ins. diam., bears S. 50° E., 65 lks. dist., marked & S 24 B T
             Corner falls on N. E. slope, 150 ft. below summit. Draw, 10 lks. wide, course N. 70° E. Set, U. S. Forest Reserve Boundary Post No. 23, 2
69.00
80.00
                ft. in ground, and build mound of stone, 3 ft.
                base, 12 ft. high, around same for corner of
                secs. 13, 18, 19 and 24, marked RESERVE in N. E. and N. W. quadrants, R 3 E S 19, in S. E. quadrant, with 3
                notches on N. and S. sides, from which A pinion, 10 ins. diam., bears N. 75° E., 28 lks. dist., marked RES T 34 S R 3 E S 18
                         BT
                     A pinion, 10 ins. diam., bears S. 63°30' E., 89 lks. dist., marked T 34 S R 3 E S 19
                   A pinion, 12 ins. diam., bears S. 34° W., 15 lks. dist., marked T 34 S R 2 E S 24 B T A pinion, 8 ins. diam., bears R. 36° W., 77 lks. dist., marked RES T 34 S R 2 E S 13
             Corner-falls on E. slope, 650 ft. below summit and
                about 40 ft. above Pine Creek on the east.
             Timber, scrubby pinion, cedar and pine.
             Land, mountainous and broken.
             Soil, rocky and sandy, 4th rate.
```

At this corner at 12h3m31s 1.m.t., I set off 23°07' N. on declination are and observe sun on meridian and obtain a reading of 37°51' on latitude are, which agrees with other data.

MOON

AQUARIUS FOREST RESERVE BOUNDARY.

T. 34 S., R. 2 E.

GENERAL DESCRIPTION.

T. 34 S., R. 2 E., is rough, mountainous land, cut up with canyons, with steep sand cliff walk. North Creek cuts off the southwest corner and is fresh pure water. No other water in township, escept for small alkaline springs. Timber is of inferior growth, consisting of scrubby pinion and juniper with some few scattering pine along draws and on top of level plateau. Formation, principally sandstone, with ridges of trachyte running into northeast corner and through east edge. Some few open hollow draws which are susceptible of cultivation if water could be supplied.

T. 34 S., R. 3 E.

From corner of secs. 13, 18, 19 and 24 of T. 34 S., Rs. 2 and 3 E., I run

East on true line through timber, descending,
bears N. 30° W. and S. 30° E.

Base of descent, 30 ft. below sec. corner, bears
N. 30° W. and S. 30° E.

Road, bears N. 30° W. and S. 30° E.

Pine Greek 50 lkg wide between beats

Pine Creek, 50 lks. wide between banks, 10 ft.

deep, flows stream of fresh water, 10 lks. wide.

Begin very abrupt ascent, bears N. 30° E.

Begin very abrupt ascent, bears N. 30° W. and
S. 30° E., over inclined sandstone ledges.

Ravine, 50 ft. deep, course S. 80° W.

Allowing for convergency, the point for \(\frac{1}{4}\) sec. cor-

ner falls on shelving sandstone ledge, dipping to S. W., on which I cut cross (X) at the exact point for $\frac{1}{4}$ sec. corner, mark $\frac{1}{4}$ on N. side of

cross, from which

A pinion, 12 ins. diam., bears N. 73° E., 40 lks. dist., marked RES & S 18 B T
A pinion, 16 ins. diam., bears S. 37°30' W., 92 lks. dist., marked & S 19 B T

July 1, 1904

July 2: Ravine, 50 ft. deep, course S. 20° W.

2.00

3.40

5.50

10.55

21.00 39.13

47.50

58.00 70.00 79.13

Head of ravine, course S. 20° W.

Head of ravine, course S.

Ravine, 60 ft. deep, course S. 20° W.

Set sandstone 24x10x6 ins., 6 ins. in ground, to solid rock and build mound of stone, 3 ft. base,

12 ft. high, around same for corner of secs. 17, 18, 19 and 20, marked with 3 notches on south and 5 on east faces (Note: Not practical to set iron post), from which

A double pine, 20 ins. diam., bears N. 14° E., 58 lks. dist., marked RES T 34 S R 3 E S 17 B T

A pine, 20 ins. diam., bears S. 49° W., 63 lks. dist., marked T 34 S R 3 E S 19 B T A pine, 12 ins. diam., bears N. 54° W., 159 lks. dist., marked RES T 34 S R 3 E S 18

No other trees available. Corner falls on small bench on west slope of cliff

at 1000 ft. above Pine Creek.

Timber, scattering pinion, pine and cedar. Land, mountainous and precipitous, sand cliffs. Soil, sandy in pine creek bottom, 4th rate.

Practically no soil in balance of mile.

From corner of secs. 17, 18, 19 and 20 of T. 34 S.,

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R. 3 E., at 10^{h_3m_{45}s} a.m., I set off 37°51' on latitude arc and 23°5'15" N. on the declination
Chains.
                  arc, and run
               East on true line between secs. 17 and 20, ascend-
                  ing precipitous rock cliff, bears N. W. and S.
               Top of cliff 400 ft. above sec. corner, bears
  3.55
                  N. 20° W. and S. 70° E. From this point white
              church in town of Escalante bears S. 2°34' E. I set iron U. S. Forest Reserve Boundary Post No. 24, in solid rock and build mound of stone around
  5.90
                  same 5 ft. base, 31 ft. high, for marking of boun-
                  dary line, marked
                  RESERVE in N.E. and N. W. quadrants, no other
                  markings, from which
                       A pine, 20 ins. diam., bears N. 25° E., 59 lks. dist., marked RESERVE B P No. 24 B T
              A pine, 16 ins. diam., bears N. 25°30' W.,107 lks. dist., marked RESERVE B P No. 24 B T Rocky wash, course S. 60° W.

Top of 50-foot gradual ascent, bears N. and S.

Set sandstone 20x14x5 ins., 15 ins. in the ground, for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on N. face, from
15.00
30.00
40.00
                  Which
                       A pine, 20 ins. diam., bears N. 60° W., 103
                           lks. dist., marked RES \frac{1}{4} S 17 B T
                       A pine, 20 ins. diam., bears S. 73°50' W., 22 lks. dist., marked ½ S 20 B T
              Begin descent, bears N. and S. 20° E.
Precipitous descent, bears N. 20° W. and S. 60° E.
Set V. S. Forest Reserve Boundary Post No. 25, in
45.00
79.00
80.00
                  solid sandstone ledge and build mound of stone.
                  5 ft. base, 3½ ft. high, around same for corner of secs. 16, 17, 20 and 21, marked RESERVE in N. W. and N. E. quadrants,
                 R 3 E S 21 in S. E. quadrant,
T 34 S S 20 in S. W. quadrant, with 4 notches
on East and 3 on south sides, from which
- A pinion, 10 ins diam., bears N. 20° E., 135
lks. dist., marked RES T 34 S R 2 E S 16
                       A pinion, 12 ins. diam., bears S. 7°30' E., 1 lks. dist., marked T 34 S R 3 E S 21 B T A pinion, 14 ins. diam., bears S. 35° W., 68 lks. dist., marked T 34 S R 3 E S 20 B T
                       No other trees available.
              Corner falls on rocky E. slope 250 ft. below summit.
              Timber, pine, pinion and small cedar. Land, level and mountainous.
              Soil, sandy disintegrated rock, 4th rate.
                                                                              July 2, 1904.
              Note: At point 5.90 chs. E. of corner of secs. 17, 18, 19 and 20, I set up instrument over iron
                  post No. 24, and at 7.15 p.m., direct telescope to signal established June 30, between secs. 15
                  and 22, T. 34 S., R. 2 E., and note reading of
                verniers as follows:
                          Vernier A = 0°00
                                           B = 179^{\circ} 59^{\circ}
                 Unclamp plate and at 7<sup>h</sup>35<sup>m</sup>30<sup>s</sup> p.m., 1.m.t., July
```

2, direct telescope to Polaris and read verniers as follows:

making mean angle between signal and the star =

Vernier A = 90°19'
" B = 89°41'

90°18 30"

```
Chains.
               Time obs.,
                                        7h353m
               L. C. July 2, 6 42.3
Hour angle, 53.2<sup>m</sup> in latitude
Azimuth of Polaris at observation
from Table VII 0°21'
                                                       in latitude 37°51'
               Observed bearing of signal
                                                                     = 90°18½' - 0°21'
                                                                  = N.89°57克 W.
               Theoretical bearing 3\frac{3}{4} inch = N.89°57'27" W.
                       Error,
                                                                           0° 0'03"
                                                                              July 2, 1904
               July 10: at 5<sup>h</sup>5<sup>m</sup>4<sup>s</sup> p.m., l.m.t., at camp, near corner of secs. 16, 17, 20 and 21, I set off 37°51' on the latitude arc and 22°13'30" N. on
                  the declination are and establish meridian with
                  solar, and mark same by hub set 5 chs. N. of my
              station.
At 10<sup>h</sup>45<sup>m</sup> p.m., 1.m.t., I observe Polaris according to Manual instructions and mark direction thus
                  determined by hub 5.00 chs. N. of my station.
              U. C. Pelaris July 1, Reduction to July 10,
                                                                                        18h44.2m
                                                                                           35.2
              U. C. July 10,
                                                                                       18h09m
              Time of observation,
                                                                                       10 45
7h24<sup>m</sup> in
              Hour angle and time argument,
               Latitude 37°51' gives aximuth 1°24.4'
              July 10, 1904.

July 11: At 7 a.m. I set off the azimuth of Polaris
1°24.4' to the west and find meridian thus estab-
                  lished coincides with meridian with solar yester-
              day p.m.
At 7<sup>h</sup>05<sup>m</sup> a.m.
                  7h05m a.m., l.m.t., I set off 37°51' on latitude arc and 22°08'45" N. on the declination arc and
                  find meridian thus determined with solar agrees
              with true meridian previously determined.

At corner of secs. 16, 17, 20 and 21 at 9h05m15s a.m., 1.m.t., I set off 37°51' on latitude arc and 22°07'15" N. on the declination arc and establish meridian with the solar, which gives mag-
                  netic declination of 16°16' E.
              Thence I run
              East on true line between secs. 16 and 21, through
                  scattering timber, descending, bears N. and S., over rough broken surface.
 5.00
              Draw, 10 lks. wide, course N. E., at base of descent 200 ft. below sec. corner; thence gradually de-
              scending along steep N. slope of sandstone cliff. At true point for 4 sec. corner mark cross (X) with 4 on N. side on bare rock surface, for 4 sec. corner, and build mound of stone, 3 ft. base, 2 ft.
40.00
                   high, north of same, from which
A pinion, 8 ins. diam., bears N. 5°30' E., 66
              lks. dist., marked RES & S 16 B T
A pinion, 10 ins. diam., bears S. 20° W., 320
lks. dist., marked & S 21 B T
Begin precipitous descent, bears N. 80° W. and
42.50
                  Š. 80° E.
              Dry branch, 20 lks. wide, in canyon, course S. 80° E. Base of descent, 600 ft. below sec. corner; begin
60.00
                  precipitous ascent, bears N. 80° W. and S. 80° E.
              Top of canyon wall 200 ft. above branch, thence
66.00
              continue ascent, bears N. 80° W. and S. 80° E. Cut cross (X), with 3 notches on E. and 3 notches
80.00
                 on S. side of same, on solid bare rock surface, over which I set U. S. Forest Reserve Boundary Post No. 26 on solid rock and build mound of
                  stone, 5 ft. base, 3\frac{1}{2} ft. high, around same for
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Chains
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2.50

10.50

14.00

17.50 25.20

28.40

28.80

30.00

39.60

40.00

corner of secs. 15, 16, 21 and 22, marked T. 34 S S 15 in N. E. quadrant, R 3 E S 22 in S. E. quadrant, S 21 in S. W. quadrant,

RESERVE, S 16 in N. W. quadrant, with 3 notches on E. and S. sides, from which
A pine, 20 ins. diam., bears N. 50°30' W., 50°30' W.,

lks. dist., marked RES T 34 S R 3 E S 16

No other trees available.

Six feet north of corner I build a witness mound of stone 5 ft. base, 3 ft. high. Corner falls on S. slope of bare rock hill 300 ft. above branch. Land, mountainous and precipitous.

Bare rock surface with no soil.

Some scattering pine and pinion timber growing in rock crevases.

At the 4 sec. corner between secs. 16 and 21 I set off 22°06' N. on declination arc, and at 12h54m, 1.m.t., observe sun on meridian and obtain a reading of 37°51' on the latitude arc.

Note: The corner of secs. 15, 16, 21 and 22 and all iron post corners in future are marked with appropriate township, range and section in quadrants within reserve, as well as quadrants outside, together with "RESERVE" in appropriate quadrant. This change made by personal order of Mr. A. F. Dunnington, topographer.

From corner of secs. 15, 16, 21 and 22, I run N. 0°02' W. on true line between secs. 15 and 16, ascending, bears N. 80° W. and S. 80° E., over bare rock surface.

Top of ascent, bears N. W. and E., 50 ft. above sec. corner; begin descent, bears N. W. and E.

Base of 100 ft. descent at dry wash, 10 lks. wide, course N. 80° E. Begin abrupt ascent, bears N. 80° E. and S. 80° W.
Top of 120 ft. ascent, bears N. E. and S. 80° W., on east side of bare rock butte.
Begin abrupt descent, bears N. 80° W. and S. 80° E. Base of 200-foot descent at ravine, 20 lks. wide,

course S. 80° E. Begin ascent, bears N. 80° W. and S. 80° E.

Top of 80-foot ascent, bears E. and W. At this point I build mound of stone, 3 ft. base, $2\frac{1}{3}$ ft. high, for boundary line marking, on prominent summit.

Begin precipitous descent, bears E. and W.

Base of 150-foot descent at draw, 15 lks. wide course E., begin gradual ascent, bears E. and W.

Top of 40 foot ascent, bears N. E. and W.

True point for \$\frac{1}{4}\$ sec. corner falls on sandstone ledge in place, upon which I mark cross (+) with \$\frac{1}{4}\$ on W. side of same at exact point for \$\frac{1}{4}\$ sec. corner and build mound of stone, 3 ft. base, 2 ft. high, 2 ft. west of cross, from which A pine, 22 ins. diam., bears N. 71°30' E., 243 lks. dist., marked 4 S 15 B T A pinion, 8 ins. diam., bears S. 76°30' W., 84

lks. dist., marked RES 4 S 16 B T July 11, 1904.

July 12: At 7h05m15 m., 1.m.t., I set off 37°51'30" on latitude arc and 22°00'45" N. on the declina-

```
Chains.
                     tion arc, and continue N. 0°02' W. between
                     secs. 15 and 16.
   40.04
                 Begin abrupt descent, bears N. 20° W. and S. 20°E.
                 Base of 40-foot descent at dry branch, 20 lks.
   46.50
                 wide, course S. 20° E. Begin abrupt ascent, bears N. 80° W. and S. 80° E.
Ravine, 50 ft. deep, course S. 80° W.
   56.20
                 Draw, 20 ft. deep, course N. 80° W.
Draw, 10 lks. wide, 20 ft. deep, course W.
Backbone of sharp ledge, bears E. and W., 90 ft.
   67.00
   70.00
   73.57
                 Ravine, 50 ft. deep, course W.
Set U. S. Forest Reserve Boundary Post No. 27
over cross (+) on bare rock, around which I
build mound of stone, 5 ft. base, 3½ ft. high,
for witness corner to corner of secs. 9, 10,
   74.00
   78.05
                     15 and 16, marked
                    W C on top of cap,
                    T 34 S S 10 in N. E. quadrant
                    R 3 E S 15 in S. E. quadrant
                    RESERVE S 16 in S. W. quadrant RESERVE S 9 in N. W. quadrant, with 3 notches
                    on E. and 4 notches on S. sides, from which A pinion, 5 ins. diam., bears N. 50° W., 11: lks. dist., marked RES W C T 34 S R 3 E
                             S 9 B T
                         A pinion, 4 ins. diam.,
                                                                   bears S. 83° W.
                             lks. dist., marked RES
                                                                               T 34 S
                                                                      W C
                                                                                              ŔЗE
                             S 16 B T
                Witness corner falls on bare rock summit of ridge, bearing N. 80° W. and S. 80° E., about 600 ft. above branch. No other trees available.

Head of ravine, 50 ft. deep, course S. 70° E.

Point for sec. corner falls on north rock wall of ravine at a point too steep to set post.
   79.00
  80.00
                 Land, broken and precipitous.
                 Timber, pine and pinion along draws and in rock
                     crevasses.
                 Surface, bare rock.
                At this corner I set off 21°58' N. on the declination arc and at 12h05m15s l.m.t., observe sun on meridian and obtain reading of 37°52' on
                     latitude arc.
                From the true point for corner of secs. 9, 10, 15 and 16, which is 1.95 chs. N. of W. C., I run N. 0°02' W. on true line between secs. 9 and 10, ascending abruptly N. 70° W. and S. 70° E.,
                over bare sand rock surface.

Top of ascent, 50 ft. above sec corner on summit of rock ridge, bears N. 80° W. and E.,
    3.25
                    begin abrupt descent.
                 Base of 500-foot descent at draw, 20 lks. wide,
  18.70
                    course S. 80° E.; begin gradual ascent, bears N. 80° W. and S. 80° E.; begin gradual ascent,
                    bears N. 80° W. and S. 80° E.
                Top of 120-foot ascent, bears E. and W. Begin descent, bears E. and W.
  36.80
  37.40
39.90
                 Base of 100-foot descent, bears N. 70° W. and S. 70° E.
                 Set sandstone 28x16x10 ins., 22 ins. in the
  40.00
                     ground, for 1/4 sec. corner marked 1/4 on W. face,
                     from which
                         A pine, 20 ins. diam., bears N. 78° W., 21
                             1ks. dist., marked RES 1 S 9 B T
                         A pine, 18 ins. diam., bears N. 89° E., 36 lks. dist., marked \( \frac{1}{2} \) S 10 B T
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Chains.
             Draw, 10 1ks. wide, course S. 70° E.; begin ascent, bears N. 70° W. and S. 70° E.

Top of 80-foot ascent, bears N. 70° W. and S. 70° E.; begin descent, bears N. 70° W. and S. 70° E.

Base of 50-foot descent at draw, course S. 70° E.; begin ascent, bears N. 70° W. and S. 70° E.

Top of 100-foot ascent, bears N. 70° W. and S. 70° E.
 41.70
 45.50
 51.50
 63.20
                 S. 70° E.; begin abrupt descent, bears N. 70° W. and S. 70° E.
 65.00
              Ravine, course S: 70° E., at base of 200-foot de-
                 scent; begin ascent, bears N. 70° W. and S.70° E.
              Falls on bare sandstone surface, at exact point for corner I mark cross (+) on rock, with 3 notch-
 80.00
                 es on E. and 5 on S. sides of cross, over which I set 0. S. Forest Reserve Boundary Post No. 28
                 on solid rock and build mound of stone, 5 ft.
                base, 3\frac{1}{2} ft. high, around same for corner of secs 3, 4, 9 and 10, marked T 34 S S 3 in N. E. quadrant, R 3 E S 10 in S. E. quadrant, RESERVE S 9 in S. W. quadrant, RESERVE S 4 in N. W. quadrant, with 3 notches
                 on E. and 5 notches on S. sides, from which A pine, 10 ins. diam., bears N. 36° W.,
                        .lks. dist., marked RES T 34 S R 3 É
                         ВТ
                      No other trees available.
             Corner falls on S. slope of bare sandstone ridge,
                 200 ft. above ravine.
             Land, precipitous and broken.
             Timber, scattering pinion and pine in crevasses
                 and ravines.
              Surface, bare sand rock.
                                                                        July 12, 1904.
              July 13:
                            At corner of secs. 3, 4, 9 and 10, T. 34
                 S., R. 3 E., at 8h05m158 a.m., 1.m.t., I set off 37°53' on the latitude arc and 21°51' N. on the
                 declination are and determine true meridian.
                Magnetic declination 16°40' E.
             Thence I run N. 0°02' W. on true line between secs. 3 and 4,
                 over bare rock surface, ascending, bears N. 80° E.
                and W.
  3.00
             Top of ascent 40 ft. above sec. corner, bears E.
                and W.
             Begin abrupt descent, bears N. 70° W. and S. 70° E. Base of 150-foot descent, bears N. 70° W. and S. 70° E.
  8.00
13.00
             Draw, 10 lks. wide, course S. 70° E.; begin abrupt ascent, bears N. 70° W. and S. 70° E.
13.50
25.00
             Top of 200-foot ascent, bears E. and W.; begin de-
                scent.
40.00
             Corner falls on bare sandstone surface.
                                                                                 I cut a
                cross (+) at the exact corner point and mark \frac{1}{4} on
                W. side of same for \(\frac{1}{4}\) sec. corner, from which A pine, 10 ins. diam., bears N. 38°30' W., 63
                         lks. dist., marked RES 1 S 4 B T
             A pine, 8 ins. diam., bears S. 27°30' E., 97 lks. dist., marked 1 S 3 B T

Base of 250-foot descent, bears N. 60° W. and S. 60° E.
47.00
             Draw, 20 lks. wide, course S. 60° E.; begin abrupt ascent, bears N. 60° W. and S. 60° E. Top of 130-foot ascent, bears N. W. and S. 60° E.;
47.10
55.00
```

thence over rolling partially bare rock surface.

Chains. 79.00 80.00

Wash 5 lks. wide, course N. 20° E.
Set'. U. S. Forest Reserve Boundary Post No. 29, 6
ins. in ground to solid rock, upon which I mark
cross (+), around which build mound of stone,
5 ft. base, 3 ft. high, for corner of secs. 3, 4,
33 and 34, Tps. 33 and 34 S., R. 3 E., marked
T 33 S S 34 in N. E. quadrant,
R 3 E S 3 in S E quadrant R 3 E S 3 in S. E. quadrant, T 34 S S 4 in S. W. quadrant, T 34 S S 4 In S. W. quadrant,
S 33 in N. W. quadrant,
RESERVE in N.E., N.W. and S.W. quadrants, with 3
notches on E. and W. sides, from which
A cedar, 14 ins. diam., bears N. 49°45' E., 3°
1ks. dist., marked RES T 33 S R 3 E S 34

A pine, 12 ins. diam., bears S. 39°15' E., 27 lks. dist., marked T 34 S R 3 E S 3 B T A pine, 22 ins. diam., bears S. 25°30' W., 135 lks. dist., marked RES T 34 S R 3 E S 4

A pinion, 6 ins. diam., bears N. 45°30' W., 68 lks. dist., marked RES T 33 S R 3 E S 33

Land, broken and hilly. Timber, scattering pinion and pine in draws and crevasses. Surface, principally bare sand rock.

At this corner I set off 21°49'30" N. on declination arc and at 12h05m30s observe sun on the meridian and obtain a reading of 37°54' on the latitude ard, which agrees with other data.

Tps. 33 and 34 S., R. 5 E.

Magnetic declination, 16°30'
From corner of secs. 3, 4, 33 and 34, Tps. 33 and 34 S., R. 3 E., I run
East on true line between secs. 3 and 34, over rolling bare rock surface.

Wash, 5 lks. wide, course N. 20° E.
Begin descent, bears N. 60° W. and S. 60° E.
Dry branch, 80 lks. wide, course S. 60° E., at base of 50-foot descent.

Begin abrupt ascent, bears N. 60° W. and S. 60° E. Falls on steep rock slope too steep for monument. Mark cross (+) with \(\frac{1}{4} \) W C on N. side of same, on bare sandstone surface, for witness corner to \(\frac{1}{4} \)

sec. corner, from which A pinion, 8 ins. diam., bears N. 77° E. lks. dist., marked RES W C & S 34 B T No other trees available; build mound of stone,

3 ft. base, 2 ft. high, 2 ft. north of witness corner point.

Build mound of stone, 4 ft. base, 3 ft. high, for line marking on top of 700-foot ascent, bears N. 20° W. and S. 20° E. Leave bare rock surface, enter growth of small timber, bears N. 20° W. and Š. 20° E.

Begin gradual descent, bears N. 20° W. and S. 20° E.

Pinion tree, 16 ins. diam., on line; I mark with 2 notches on E. and W. sides. Base of 50-foot descent at draw; 10 lks. wide,

course S. E.; begin ascent, bears N. W. and S. E. Set U. S. Forest Reserve Boundary Post No. 30, 3 ft.

80.00

50.50

69.91

76.20

.15 7.00 9.00

10.00 40.0040.66

AQUARIUS FOREST RESERVE BOUNDARY.

Tps. 33 and 34 S., R. 3 E.

```
in ground, for corner of secs. 2, 3, 34 and 35
  Chains
                   marked
                   T. 33 S
R. 3 E.
                                 S 35 in N. E. quadrant,
                   R. 3 E, S 2 in S. E. quadrant, T. 34 S S 3 in S. W. quadrant,
                   S. 34 in N. W. quadrant,
RESERVE in N. E. and N. W. quadrants, with 2
notches on E. and 4 on W. sides, from which
A pinion, 10 ins. diam., bears N. 56°30' E.,
24 lks. dist., marked RES T 33 S R 3 E
                        A pinion, 14 ins. diam., bears S. 24° E., 50 lks. dist., marked T 34 S R 3 E S 2 B T A pinion, 14 ins. diam., bears S. 20° W., 38 lks. dist., marked T 34 S R 3 E S 3 B T A cedar, 12 ins. diam., bears N. 17°30' W., 36 lks. dist., marked RES T 33 S R 3 E
                            S 34 B T
               Corner falls on S. W. slope at south end of long
                   cedar ridge, 80 ft. above draw.
               Land, precipitous and mountainous.
               Timber, pinion and cedar on last half.
               Soil, bare sand
                                             rock and rock, 4th rate.
               Formation, changes from sandstone to sandy; sub-
                   surface covered with trachite boulders, at top of
                  ridgo.
                                                                             July 15, 1904:
               July 14: At corner of secs. 2, 3, 34 and 35,, at 9050508 a.m., l.m.t., I set off 37°54' on the latitude arc and 21°41'30" N. on the declination
                  arc, and determine meridian with the solar.
                  Magnetic declination 16°40' E.
               Thence I run
               East on true line between secs. 2 and 35, through
                  small juniper and pinion timber, gradually as-
                  cending along south slope of ridgo.
              Top of amcent on south and of ridge, 30 ft. above sec. corner; begin descent, bears N. E. and
  7.00
                  S. 80° W.
              Draw, 10 lks. wide, course S. 80° E., at base of 80-foot descent, bears N. 80° W. and S. 80° E.; begin ascent, bears N. 80° W. and S. 80° E. Draw, 8 lks. wide, course S. 20° E.
17.50
28.00
              Top of 50-foot accent, bears N. and S.; begin
32.00
                  descent, bears N. and S.
              Set a sandstone 18x10x4 ins., 12 ins. in the ground for 2 sec. corner, marked 4 on N. face, from
40.00
                  which
                       A pinion, 10 ins. diam., bears N. 45° E., 17 lks. dist., marked RES 4 S 35 B T
                       A pinion/ 4 ins. diam., bears S. 15°15' E., 27 lks. dist., marked & S 2 B T
              Base of 50-foot descent, bears N. E. and S. W., at
43.00
              side hill draw, 10 lks. wide, course S.; begin ascent, bears N. W. and S. E.
Top of 50 ft. ascent, bears N. W. and S. E.
Bogin descent, bears N. E. and S. 80° W.
Base of 150-foot descent, bears N. 50° E. and S. W.
46.00
56.00
69.00
                 at draw, 15 lks. wide, course N. 50° E.; begin
              ascent, bears N. 50° E. and S. W. Wash, 5 lks. wide, course N. 20° W.
71.70
             Top of 50-foot ascent, bears N. and S.; begin doscent, bears N. and S. Set, U. S. Forest Reserve Boundary Post No. 37
77.00
                 to U. S. Forest Reserve Boundary Post No. 31, 2 It. in ground to rock, and build mound of stone,
80.00
```

3 ft. base, la ft. high, around same, for corner

1 JZZ

AQUARIUS FOREST RESERVE BOUNDARY.

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Chains
                     of secs. 1, 2, 35 and 36, marked T 33 S S 36 in N. E. quadrant
                     R 3 E S 1 in S. E. quadrant
T 34 S S 2 in S. W. quadrant
S 35 in N. W. quadrant
                     RESERVE in N. E. and N. W. quadrants, with 1 notch on E. and 5 on W. sides, from which
                           A pinion, 8 ins. diam., bears N. 48°45' E., 4: lks. dist., marked RES T 33 S R 3 E S 36
                          A cedar, 10 ins. diam., bears S. 84°30' E., 30 lks. dist., marked T 34 S R 3 E S 1 B T A pinion, 14 ins. diam., bears S. 7°30' W., 41 lks. dist., marked T 34 S R 3 E S 2 B T A pinion, 10 ins. diam., bears S. 51° 30' W., 53 lks. dist., marked RES T 33 S R 3 E S
                               35 B T
                 Timber, small cedar and pinion.
                 Land, mountainous and hilly.
                            rocky, 4th rate.
                 Formation, trachyte boulders on top of hills over
                     lower strata of white sandstone.
                At this corner I set off 21°40'30" N. on the de-
                     clination are and at 12h05m30s l.m.t. observe sun
                     on the meridian and obtain a reading of 37°54' on
                     the latitude arc.
                Magnetic declination 15°55' E. From corner of secs. 1, 2, 35 and 36, I run East on true line between secs. 1 and 36, through
                small timber, descending, bears N. and S.
Draw, 10 lks. wide, course N. 20° E., at base of
30-foot descent, below sec. corner; begin ascent,
bears N. 20° E. and S. 20° W.
  1.80
                Top of 50-foot ascent, bears N. 20° E. and S.20° W.
  3.50
                    thence over rolling surface.
                Draw, 5 lks. wide, course N. 20° E.
Begin descent, bears N. 20° E. and S. 20° W.
Draw, 10 lks. wide, course N. 50° E.
Descent, becomes precipitous, bears N. W. and S. 60° E.
  7.30
11.00
19.00
23.00
                Base of 200-foot descent, bears N. W. and S. 60° E. Sand Creek, 40.1ks. wide, stream of alkaline water,
25.50
25.70
               4 lks. wide, 1 in. deep, course S. 60° E.
Begin abrupt ascent, bears N. W. and S. 60° E.
Top of canyon wall 80 ft. high, bears N. W. and
S: 60° E.; thence over nearly level bench.
Draw, 10 lks. wide, course S.; begin ascent, bears
N. W. and S. E.
26.00
27.50
33.00
                Set sandstone 22x12x8 ins. 16 ins. in ground,
40.00
                    for $\frac{1}{2}$ sec. corner, marked $\frac{1}{2}$ on N. side, from which A pinion, 12 ins. diam., bears N. 70°30' W., 28 lks. dist., marked RES $\frac{1}{2}$ S 36 B T

A cedar, 10 ins. diam., bears S. 35°30' E., 27

lks. dist., marked $\frac{1}{2}$ S 1 B T
               Wash, 5 lks. wide, course S.
Top of 300-foot ascent, bears N. 20° W. and S.
Leave timber, enter sage brush flat, bears N.W.
45.50
58.50
70.00
                Set U. S. Forest Reserve Boundary Post No. 32, 25
80.00
                    ft. in ground to rock, with mound of stone and
                    earth, 3 ft. base, 1 ft. high around same for
                    corner of Tps. 33 and 34 S., Rs. 3 and 4 E.,
                   marked
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AQUARIUS FOREST RESERVE BOUNDARY.

Tps. 33 and 34 S., R. 3 E.

Chains.

T 33 S S 31 in N. E. quadrant ?
R 4 E S 6 in S. E. quadrant
T 34 S S 1 in S. W. quadrant
R 3 E S 36 in N. W. quadrant RESERVE in N. E. and N. W. quadrants, with 6 notches on N., S., E. and W. sides, from which A cedar, 10 ins. diam., bears N. 55°30' E., 19 1ks. dist., marked RES T 33 S R 4 E S 31 A cedar, 12 ins. diam., bears S. 27°45' E., 418 lks. dist., marked T 34 S R 4 E S 6

A cedar, 14 ins. diam., bears S. 21° W., 32 lks. dist., marked T 34 S R 3 E S 1 B T A pinion, 10 ins. diam., bears N. 6°15' W., 264 Lks. dist., marked RES T 33 S R 3 E S 36 B T

Land, mountainous and rolling. Soil, sandy and rocky, 4th rate. Timber, small cedar and pinion pine. Some local attraction throughout mile.

July 14, 1904.

GENERAL DESCRIPTION.

34 S., R. 2 E., is mountainous and broken, Death Gulch and its tributaries forming a strip of country about 3 miles wide practically barren of all growth and consisting of bare sand rock surface cut by steep walled canyons, embracing secs. 3, 4, 5 and part of 6, and running in a southeasterly direction through township. Stream of water in Death Gulch in southeast corner of township. No water in other portions except in holes washed in sand rock (tanks). Sand Creek Canyon cuts off N. E. corner of township and is small stream of strong alkali water. Tops of ridges in N. E. and S. W. corners are of trachyte boulder formation with sandstone sub-strata, and are timbered with small cedar and pinion pine,

with some scattering yellow pine.
In T. 33 S., R. 3 E., there is some settlement in S. E. cornor. King's Ranch is located about in sec. 25, and other ranches are situated north of line in Salt Gulch, in Rs. 3 and 4 E.

Tps. 33 and 34 S., R. 4 E.

July 15: corner of Tps. 33 and 34 S., Rs. 3 and 4 E., a 7h05m45g a.m., l.m.t., I set off 37°54' on the latitude arc and 21°34' N. on the declination arc and establish meridian with the solar. Magnetic declination 16°30' E.

Thence I run

.50

5.50

9.00

29.50

33.50

East on true line between secs. 6 and 31, over

level sage flat plateau.

Trail, bears N. 20° W. and S. 20° E., "Escalante and Salt Gulch Trail".

Leave sage flat, enter timber and begin descent, bears N. 30° W. and S. 30° E.

Base of 50-foot descent, bears N. W. and S. E. Draw, 10 lks. wide, course S. E.; begin ascent, bears N. W. and S. E.

Top of 100-foot ascent, bears N. 80° W. and S. 80° E.

Begin descent, bears N. 20° E. and S. 70° W.

AQUARIUS FOREST RESERVE BOUNDARY. .

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Chains.
              Set sandstone 18x14x4 ins., 6 ins. in the ground to solid rock and build mound of stone 22 ft.
38.88
             base, 1 ft. high, around same for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which

A pinion, 6 ins. diam., bears N. 24° W., 60 lks. dist., marked RES $\frac{1}{4}$ S 51 B T

A pinion, 10 ins. diam., bears S. 58° W., 18 lks. dist., marked $\frac{1}{4}$ S 6 B T

Begin precipitous descent, bears N. and S.

Base of 200-foot descent bears N. 20° W. and
46.65
              Base of 200-foot descent, bears N. 20° W. and S. 20° E. Salt Creek, 50 lks. wide, stream of alkali water,
52.80
53.00
                 5 lks. wide, 3 ins. deep, course S. 20° E.; begin ascent, bears N. 20° W. and S. 20° E.
             Top of canyon wall on left bank of Salt creek,
54.05
                 50 ft. above creek.
             Top of ascent, bears N. 20° W. and S. E., 200 ft.
68.00
                 above Salt Creek.
74.00
              Draw, 10 lks. wide, course S., begin ascent, bears
             N. and S.
Set'U. S. Forest Reserve Boundary Post No. 33, 3
ft. in ground, for corner of secs. 5, 6, 31 and
78.88
                 32, marked
                 T 33 S S 32 in N. E. quadrant R 4 E S 5 in S. E. quadrant
                 T 34 S S 6 in S. W. quadrant
                S 31 in N. W. quadrant RESERVE in N. E. and N. W. quadrants, with 5
                notches on E. and 1 on W. sides, from which A cedar, 10 ins. diam., bears N. 32°30' E., 85 lks. dist., marked RES T 33 S R 4 E
                         S 32 B T
                     A cedar, 14 ins. diam., bears S. 46°30' E., 60 lks. dist., marked T 34 S R 4 E S 5 B T A cedar, 18 ins. diam., bears S. 60°15' W., 42 lks. dist., marked T 34 S R 4 E S 6 B T A pinion, 10 ins. diam., bears N. 29°45' W., 76 lks. dist., marked RES T 33 S R 4 E
                         S 31 B T
             Land, mountainous.
             Soin, sandy and rocky, 4th rate. Timber, scrubby cedar and pinion pine.
             Local attraction of magnetic needle throughout
                           Corner falls on W. slope of hill, 50 ft.
                above draw.
            At this corner I set off 21°31'15" N. on the declination arc and at 12h05m45s 1.m.t., observe
                sun on meridian and obtain a reading of 37°54' on
                the latitude arc.
                        Distance of 78.88 chs. for this mile is de-
                rived from computing convergency from Seventh
            Standard Parallel South as follows:
Lat. 7h S.P.S. = 37°43'26"
            Lat. south bdy. T 33 S = 37°53'50"

Cos. 37°43'26": cos. 37°53'50" = 480 : length
S. bdy. T 33 S .79096: 78911 = 480 : 478.88 chs.
            From corner of secs. 5, 6, 31 and 32, Tps. 33 and
                34 S., R. 4 E., I run
            East on true line between secs. 5 and 32, over
                hilly surface, through timber, ascending, bears
                N. and S. Magnetic declination 15°58' E.
1.00
            Top of ascent, 15 ft. above sec. corner, bears N.
                and S.
2.60
            Begin descent, bears N. and S.
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Chains.
     9.20
                        Abrupt descent over sandstone ledge.
  13.00
                        base of 200-foot descent, bears N. 20° E. and
                             S. 20° W.
                      S. 20° W.

Draw, 10 lks. wide, course S. 20° W.

Dry branch, 20 lks. wide, rock banks, 20 ft. deep, course S. W. Begin ascent, bears N. E. and S. W.

Set trachyte boulder 22 x14x8 ins., 6 ins. in the ground to solid rock, and build mound of stone 3 ft. base, 1½ ft. high, around same for ¼ sec. corner, marked ¼ on N. face, from which

A pinion, 14 ins. diam., bears N.12°50' E., 66 lks. dist., marked RES ¼ S 32 B T

A cedar, 14 ins. diam., bears S. 8°30' W., 29 lks. dist., marked ½ S 5 B T

Trail, bears N. and S., "Escalante and Boulder
  15.20
  30.50
  40.00
 58.20
                                         bears N. and S., "Escalante and Boulder
                            Trail".
 61.00
                       Vertical ascent of 20 ft. over sandstone ledge, bears N. 50° E. and S. 50° W.
 74.50
                          Vertical ascent of 20 ft. over sandstone ledge, bears N. 89° E. and S. 80° W.
                      Vertical descent of 20 ft. off of same ledge, bears N. 89° W. and S. 80° E. Vertical ascent of 20 ft. up same ledge; bears N.E.
 75.00
 79.80
                      and S. W.

Set Forest Reserve Boundary Post No. 34 1 ft. in ground to solid rock, and build mound of stone,
 80.00
                           ground to solid rock, and build mound of stone,
5 ft. base, 3 ft. high, around same for corner of
secs. 4, 5, 32 and 33, marked
T 33 S S 33 in N. E. quadrant
R 4 E S 4 in S. E. quadrant
T 34 S S 5 in S. W. quadrant
S 32 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with 4
notches on east and 2 on west faces, from which
A cedar, 10 ins. diam., bears N. 66° E., 71
lks. dist., marked RES T 33 S R 4 E S 33
B T
                     A pinion, 18 ins. diam., bears S. 50°50' E., 37 lks. dist., marked T 34 S R 4 E S 4 B T

A pinion, 10 ins. diam., bears S. 35° W., 79 lks. dist., marked T 34 S R 4 E S 5 B T

A pinion, 14 ins. diam., bears N. 8° W., 10-1ks. dist., marked RES T 33 S R 4 E S 32 B T

Corner falls on N. W. slope of hill, 250 ft. above
                           last branch.
                      Land, mountainous and broken.
                      Soil, rocky and sandy, 4th rate.
                      Timber, cedar and pinion.
                     From corner of secs. 4, 5, 32 and 33, I run East on true line between secs. 4 and 33, through
                           timber, ascending bears N. E. and S. W. Magnetic declination 15°57' E.
                      Top of abrupt ascent, 50 ft. above sec. corner,
   5.00
                            bears N. and S., continue gradual ascent.
                     Draw, 8 lks. wide, course S. 60° W.
16.30
                     Enter draw, 10 lks. wide, course N. 80° W. from E. Leave draw, course W. from N. 80° E. Same draw, course N. 80° W. Set trachyte boulder 28x18x10 ins., 20 ins. in the ground, for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on N. face,
22.50
25.00
28.00
40.00
                           from which
                                  A cedar, 12 ins. diam., bears N. 28°45 W.,
46 lks. dist., marked RES 4 S 33 B To
A pinion, 10 ins. diam., bears S. 27° E., 45
lks. dist., marked 4 S 4 B T
                                                                                                                    July 15, 1904
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Chains.
                 July 16: At this corner, at 7h05m45s a.m., l.m.t., I set off 37°54' on the latitude arc and 21°24'15"
                     N. on the declination arc, and determine meridian
                     with solar, and continue east between secs. 4
                 Top of ascent, 150 ft. above sec. corner, bears N. W. and S. E., thence over rolling land, grad-
 44.00
                     ually descending.
                Leave timber, enter sage flat plateau, bears N. 20° W. and S. E., called "Home bench".

Escalante and Boulder road, bears N. W. and S. E. Set, U. S. Forest Reserve Boundary Post No. 35, 2½ ft. in ground, and build mound of earth around same, 3 ft. base, 1 ft. high, for corner of secs.
 49.00
 79.70
80.00
                     3; 4, 33 and 34, marked
T 33 S S 34 in N. E. quadrant
                    R 4 E S 3 in S. E. quadrant
T 34 S S 4 in S. W. quadrant
S 33 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with 3 notches
                    on E. and W. sides, from which
A pinion, 10 ins. diam., bears N. 53° E.,
lks. dist., marked RES T 33 S R 4 E
                          A cedar, 12 ins. diam., bears S. 51° W., 362 lks. dist., marked T 34 S R 4 E S 4 B T A pinion, 16 ins. diam., bears N. 0°45' W., 17 lks. dist., marked RES T 33 S R 4 E S 33
                          No southeast tree available.
               Land, rolling.
Soil, for 1st half-mile rocky, 4th rate; for last
                    half-mile sandy, 3rd rate, and with water could
                    be made fertile.
                Timber, cedar and pinion pine.
                From corner of secs. 3, 4, 33 and 34, Tps. 33 and 34 S., R. 4 E., I run
East on true line between secs. 3 and 34 through
                    open sage brush flat bench.
                Leave sage brush, enter timber, bears N. W. and S.E. Begin abrupt descent, bears H. W. and S. E.
19.00
20.00
                Precipitous descent over sandstone ledge, bears N. 30° W. and S. 30° E.
30.20
               Base of 450-foot descent, bears N. 30° W. and S. 30° E.; at dry branch, 20 lks. wide, course S. 30° E.; begin precipitous ascent, bears N. 30° W. and S. 30° E.

Point for ½ sec. corner falls on side wall of canyon too steep for mound of stone to stand.

Mark cross (+) with ½ W C on N. side of same on there sandstone surface on flot beach 4 ft. wide
35.50
40.00
41.40
                    bare sandstone surface on flat bench 4 ft. wide,
                    for witness corner to \(\frac{1}{4}\) sec. corner and build mound of stone, 3 ft. base, 2\(\frac{1}{2}\) ft. high, 2 ft. north of cross, from which
                         A pinion, 10 ins. diam., bears N. 12°15' E., 28 lks. dist., marked RES W C & S 34 B T A pinion, 6 ins. diam., bears S. 53° E., 176 lks. dist., marked WC & S 3 B T
49.65
                Top of abrupt ascent over bare rock surface 350 ft.
                    above branch, bears N. W. and S. E.; continue
                    gradual ascent.
                Top of ascent, bears N. W. and S. E., 400 ft. above
55.00
                branch; thence over gently rolling plateau. Begin gradual ascent, bears N. W. and S. E.
66.00
70.50
                Top of 40-foot ascent, bears N. 60° W. and S. 60° E.
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The state of the s
 Chains
 78.00
                        Old Escalanto and Boulder trail, bears N. 60° E.
                             and S. 60° W.
                        Set'.U. S. Forest Reserve Boundary Post No. 36
 80.00
                             in ground, and build mound of stone and earth 2\frac{1}{3} ft. base, I ft. high, around same for corner of secs. 2, 3, 34 and 35, marked 33 S S 35 in N. E. quadrant 4 E S 2 in S. E. quadrant 54 S S 3 in S. W. quadrant 51 S S 3 in S. W. quadrant 52 S S 3 in S. W. quadrant 53 S S 3 in S. W. quadrant 53 S S 3 in S. W. quadrant 54 S S 3 in S. W. quadrant
                       T 34 S
                       RESERVE in N. E. and N. W. quadrants, with 2 notches on East and 4 on West sides, from which
                                      A pinion, 10 ins. diam., bears N. 29°30' E., 41 lks. dist., marked RES T 33 S R 4 E
                                             S 35 B T
                                      A pinion, 10 ins. diam., boars S. 29°30' E., 72 lks. dist., marked T 34 S R 4 E S 32
                                     A pinion, 12 ins. diam., bears S. 60° W., 8 lks. dist., marked T 34 S R 4 E S 3 B T A pinion, 8 ins. diam., bears N. 18° W., 47
                                             lks. dist., marked RES T 33 S R 3 E S 34
                       Land, mountainous.
                       Soil, bare rock and sandy, 4th rate.
                       Timber, pinion pine and cedar.
                       At this corner I set off 21°21'45" N. on declination are and at 12h05m45 observe sun on meridian
                             and obtain reading of 37°54' on latitude arc.
                       From corner of secs. 2, 3, 34 and 35, Tps. 33 and 34 S., R 4 E., I run
East on true line between secs. 2 and 35, through
                              small timber over gently rolling plateau.
                             Magnetic declination 15°56' E.
                       Head of gulch, course S. Begin descent, bears N. and S., over bare rock
   1.00
12.00
                              surface.
                        Base of 400-foot descent over bare rock surface,
20.50
                              bears N. and S. 20° E.
                        Boulder Creek, 50 1ks. wide, 12 ft. banks, course
21.20
                       S. 20° E., clear fresh water in pools, all taken out above for irrigating purposes.

Begin abrupt ascent, bears N. and S. 20° E.
24.00
                       Top of 30 ft. ascent, bears H. and S. 20° E.;
28.00
                             thence actors level bench.
                       Rip Gut fonce bears N. 56° W. and S. 56° E., enter
George Baker's desert claim covered with sage and
34.85
                              juniper trees, cultivated land lying to north and
                       commencing about 20 chs. N. Set trachyte boulder 20x12x8 ins.,
40.00
                                                                                                                             15 ins. in
                              ground for ½ sec. corner, marked ¼ on N. face,
                              from which
                                      A codar, 14 ins. diam., bears, N. 42°30' E., 196
                                     lks. dist., marked RES 4 S 35 B T
A cedar, 18 ins. diam., bears S. 43°30' W., 192
lks. dist., marked 4 S 2 B T
                       Pole and wire fence, bears N. 23° E. and S. 25° W. Leave Goo. Baker's claim.
56.48
                       Horse trail, bears N. 23° E. and S. 23° W. Begin ascent, bears N. 30° E. and S. 30° W.
56.90
63.00
                       Top of 120-foot ascent on N. slope of bare rock nose, begin descent, bears N. 80° W. and S.30° E. Set, U. S. Forest Reserve Boundary Post No. 37, 3
70.00
80.00
                             ft. in ground, and raise mound of earth 3 ft.
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AQUARIUS FOREST RESERVE BOUNDARY.

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base, 1 ft. high, around same for corner of secs. 1, 2, 35 and 36. Corner falls on sandy N. E. slope of hill, 80 ft. below summit;
 Chains
                     marked
                                S 36 in N. E. quadrant
                R 4 E S l in S. E. quadrant
T 54 S S 2 in S. W. quadrant
                T 54 S S 2 in S. W. quadrant
S 35 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with 1
                    notch on east and 5 on west sides, from which A cedar, 18 ins. diam., bears N. 14°30' E., 28 lks. dist., marked RES T 33 S R 4 E
                              S 36 B T
                          A cedar, 6 ins. diam., bears S. 61°45' E., lks. dist., marked T 34 S R 4 E S 1 B 4 cedar, 10 ins. diam., bears S. 51°30' W.
                                                                                                S 1 BT
                         145 lks. dist., marked T 34 S R 4 E S 2 B T A cedar, 12 ins. diam., bears N. 15°30' W., 39 lks. dist., marked RES T 33 S R 4 E S 35
                Land, mountainous and rolling.
                Soil, rocky, 4th rate; and sandy loam, 2nd rate.
                Timber, small cedar and pinion.
                                                                                      July 16, 1904.
                July 18: At corner of secs. 1, 2, 35 and 36, Tps. 33 and 34 S., R. 4 E., at 7<sup>h</sup>06<sup>m</sup> a.m., 1.m.t., I set off 37°54' on the latitude are and 21°04'
                    N. on the declination arc, and determine true meridian with the solar. Magnetic declination
                    15°56' E.
                Thence I run
                East on true line between secs. 1 and 36, through
                    timber, gradually descending, bears N. and S.,
                over sandy bench. Base of 30-foot descent,
12.50
                                                                bears N. and S.; draw, 10
                    1ks. wide, course S. 20° E.
                Irrigating ditch, 5 lks. wide, course S.; leave
21.10
                    timber, enter Woolsey's lucerne field, bears N. and S.
                Irrigating ditch, 5 lks. wide, course S. Woolsey's house, bears N., 3 chs. dist.
30.00
31.50
40.00
                Set sandstone 18x12x5 ins., 12 ins. in ground for
               # sec. corner, marked # on N. face; dig pits 18x18x12 ins., E. and W. of stone, 3 ft. dist., and raise mound of earth, 3 ft. base, 1 ft. high, N. of corner. From # sec. corner J. C. Peter's house bears S. 22°05' E., about 8 chs. dist.

Fence, bears N. 23° W. and S. 23° E.; leave Woolsey's claim; enter claim of J. C. Peters.
41.20
               Irrigating ditch, 5 lks. wide, course S. 20° E. Irrigating ditch, 5 lks. wide, course S. Fence, bears N. and S., leave Peters' hay field,
41.60
58.35
58.50
               enter his pasture covered with scattering timber.
Irrigating ditch, course S. 20° E.; begin gradual
descent, bears N. 20° W. and S. 20° E.
Irrigating ditch, course S. 20° E.
Set/M/ S. Forest Possers Bears Research
59.20
71.50
                Set, U. S. Forest Reserve Boundary Post No. 38, 3
80.00
                    ft. in ground, and raise mound of earth, 4 ft.
                   base, 1 ft. high, around same for corner of Tps. 33 and 34 S., Rs. 4 and 5 E., marked T 33 S S 31 in N. E. quadrant
                   R 5 E S 6 in S. E. quadrant
T 34 S S 1 in S. W. quadrant
R 4 E S 36 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with 6
                   notches on N., S., E. and W. sides, from which
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AQUARIUS FOREST RESERVE BOUNDARY.

Tps. 33 and 34 S., R. 4 E.

Chains

2.25

4.80

14.04

32.00

38.88

40.00

- A pinion, 8 ins. diam., bears N. 59°30' E. 293 lks. dist., marked RES T 33 S R 5 I $R \cdot 5 \cdot E$
 - S 31 B T
- A pinion, 10 ins. diam., bears \$5°45' E., 234 lks. dist., marked T 34 S R 5 E S 6 B T A pinion, 10 ins. diam., bears S. 7°30' W.
- 292 lks. dist., marked T 34 S R 4 E
- A cedar, 10 ins. diam., bears N. 45°45' W. 52 lks. dist., marked RES T 33 S R 4 E S 36 B T

Land, rolling and level. sandy loam, 2nd rate and is mostly under cultivation, being irrigated. Timber, codar and pinion.

GENERAL DESCRIPTION.

T. 33 S., R. 4 E., is rough and mountainous, covered with small timber, principally pinion, pine and cedar, with exception of bottom lands and benches lying along Boulder Creek in east half and on Salt Gulch in S. W. quarter, which is settled and cultivated in small ranches by fifteen or twenty families. Boulder postoffice is situated near corner of sees. 22, 23, 26 and 27.

In T. 34 S., R. 4 E., there is settlement in secs.1, 2, 11 and 12; balance of township mountainous, with exception of Home Bench, a high plateau in with exception of Home Bench, a high plateau in secs. 3, 4, 9 and 10. This plateau also extends into T. 33 S., R. 4 E., in secs. 33, 34, 27 and 28, and with water could be made fertile.

Tps. 33 and 34 S., R. 5 E.

From corner of Tps. 33 and 34 S., Rs. 4 and 5 E., East on true line between secs. 6 and 31, through timber, gradually descending, bears N. W. and S. E., in Peters pasture.

Draw, 30 lks. wide, course S. 20° E., at base of

Draw, 30 lks. wide, course S. 20° E., at base of descent, 30 ft. below township corner.

Draw, 5 lks. wide, course S. W.; begin abrupt ascent, bears N. and S. 20° W., up bare rock ascent forming east fence of Peters' pasture enclosure.

Top of 200-feet ascent on north slope of bare rock nose, at which point I build mound of stone, 4 ft. base, 3 ft. high, for boundary line marking on prominent summit; thence gradually descending along steep E. slope.

Base of 140-foot descent, bears N. 20° W. and S. 20° E.; leave bare rock, enter timbered sandy

bench. ground, for 2 sec. corner, marked 2 on N. face, from which Set trachyte boulder 22x14x12 ins., 18 ins. in the

A pinion, 16 ins. diam., bears N. 2° W., 15 - 1ks. dist., marked RES & S 31 B T
A pinion, 10 ins. diam., bears S. 62° E., 60 1ks. dist., marked & S 6 B T

Draw, 15 1ks. wide, course N. 20° E.

Draw, 20 lks. wide, course S. 60° E.

Set', U. S. Forest Reserve Boundary Post No. 39, 30

ins. in ground, and raise mound of earth, 4 ft.
base, 1 ft. high, around same, for corner of socs
5, 6, 31 and 32, marked 42.50 78.88

A CONTRACTOR OF THE PERSON OF	
Chains	T 33 S S 32 in N. E. quadrant R 5 E S 5 in S. E. quadrant T 34 S S 6 in S. W. quadrant S 51 in N. W. quadrant RESERVE in N. E. and N. W. quadrants, with 5 notches on E. and 1 on W. sides, from which A cedar, 14 ins. diam., bears N. 10° E., 54 lks. dist., marked RES T 33 S R 5 E S 32 B T A cedar, 8 ins. diam., bears S. 72°45' E., 262 lks. dist., marked T 34 S R 5 E S 5 B T A pinion, 8 ins. diam., bears S. 84° W., 70 lks. dist., marked T 34 S R 5 E S 6 B T A pinion, 10 ins. diam., bears N. 46°15' W., 85 lks. dist., marked RES T 33 S R 5 E S 31 B T Land, mountainous and rolling. Soil, rocky and sandy, 4th and 3rd rate; latter 3/4 mile could be made fortile with water. Timber, small cedar and pinion.
	At this corner I set off 21°01' N. on the declination are and at 12h06m 1.m.t. observe sun on the meridian and obtain reading of 37°54' on latitude are.
	Note: The distance of 76.88 chs. for this mile is derived from computing the theoretical convergency from the 7th Standard Parallel South.
2.70 20.00 22.00	From corner of necs. 5, 6, 21 and 32, I run East on true line between secs. 5 and 32, over gently rolling surface covered with small timber. Draw, 15 lks. wide, course 3. Begin descent, bears H. 20° V. and S. 20° E. Draw, 10 lks. wide, course S. 20° E., at base of 30-foot descent; begin ascent over bare rock surface, with scattering timber, bears H. 20° V. and S. 20° E.
46.00	Falls on mandatone ledge in place at the exact point for 2 sec. corner, I cut cross (+) on sandstone ledge and mark 2 on N. side of same, and erect a mound of stone, 5 ft. base, 5 ft. high, on N. of corner, from which A codar, 12 inc. diam., bears N. 26° E., 85 lks. dist., marked RES 2 S 32 B T A pinion, 6 inc. diam., bears S. 83°30' E., 119 lks. dist., marked 2 S 5 B T
75.00 78.00 80.00	Top of 350 ft. ascent, bears N. W. and S. E. Begin abrupt descent, bears N. W. and S. E. Point for corner falls on bare sandstone surface. At the exact point for corner of sees. 4, 5, 32 and 33 I cut cross (+), with 4 notches on east and 2 on west sides, over which I set/U. S. Forest Reserve Boundary Post No. 40, with mound of stone 5 ft. base, 34 ft. high, around same, for corner of sees. 4, 5, 32 and 33, marked T 33 S S 33 in N. E. quadrant R 5 E S 4 in S. E. quadrant T 34 S S 5 in S. W. quadrant RESERVE in N. W. quadrant RESERVE in N. W. quadrant, with 4 notches on east and 2 on west sides, from which A pinion, 10 ins. diam., bears S. 58°30' W., 150 lks. dist., marked T 34 S R 5 E S 5 B T A pinion, 8 ins. diam., bears N. 61° W., 200 lks. dist., marked RES T 33 S R 5 E S 32 B T

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Chains!
                               No other trees available.
                    Land, level and mountainous.
                     Soil, sandy and bare rock, 3rd and 4th rates.
                    Timber, cedar and pinion.
                                                                                                      July 18, 1904
                    July 19: At corner of secs. 4, 5, 32 and 33, Tps. 33 and 34 S., R 5 E., at 8h06m a.m., l.m.t., I set off 37°54' on latitude arc and 20°53' N. on
                         the declination arc, and establish meridian with the solar. Magnetic declination 15°50' E.
                    Thence I run
N. 0°02' W. on true line between secs. 32 and 33,
                         over bare sand rock surface, descending abruptly,
                         bears N. 30° W. and S. 50° É.
 20.00
                    Base of 620-foot descent, bears N. W. and S. E.;
                         thence up bottom of Deer Creek Canyon, over roll-
                   ing timbered bottom land.

Enter bed of Deer Croek, 60 lks. wide, 10 ft. banks, course S. 30° E. from N.

Stream in bed of creek, 8 lks. wide, 3 ins. deep, fresh water (most of water of this creek is taken out above and carried over by ditch to the Boulder
 31.00
 39.50
                        Creek Valley for irrigating purposes).
                   Falls on east bank of Deer Creek, course S., from
 40.00
                        N. 20° 7.
 40.50
                    Set sandstone 26x14x10 ins., 18 ins. in ground, for
                        witness corner to ! sec. corner, marked W ! C on
                   W. face, from which
A cottonwood, 12 ins. diam., bears S. 88° E.,
89 lks. dist., marked W C \( \frac{1}{2} \) S 33 B T
A cottonwood, 18 ins. diam., bears S. 28°30' W.
205 lks. dist., marked RES W C \( \frac{1}{2} \) S 32 B T
Wash, 5 lks. wide, course S. W., 5 chs. to creek.
 53.70
                  Branch, 40 lks. wide, course B. W., 5 chs. to creek.

Branch, 40 lks. wide, 15-foot banks, stream fresh water, 3 lks. wide, 1 in. deep, , course S. 20° W.

Set/U. S. Forest Reserve Boundary Post No. 41, 30 ins. in ground and build mound of stone and earth, 3 ft. base, 1 ft. high, around same for corner of secs. 28, 29, 32 and 33, marked

T 33 S S 28 in N. E. quadrant

R 5 E S 33 in S E. quadrant
60.30
80.00
                       R 5 E S 33 in S. E. quadrant
                      R 5 E S 33 in S. E. quadrant
S 32 IN S. W. quadrant
S 29 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 4
notches on E. and 1 on south sides, from which
A pinion, 12 ins. diam., bears N. 55°15' E.,
60 lks. dist., marked T 33 S R 5 E S 28 B T
A cedar, 22 ins. diam., bears S. 11°45' E., 80
lks. dist., marked T 35 S R 5 E S 35 B T
A cedar, 10 ins. diam., bears S. 9°45' W., 55
lks. dist., marked RES T 35 S R 5 E S 32
B T
                              No other tree available.
                  Land, procipitous and level.
Soil, bare rock and sandy, 4th and 3rd rates.
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Timber, pinion, cedar, pine and cottonwood.

At this corner I set off 20°50'30" N. on the declination arc and at 12h06" l.m.t. observe sun on the meridian and obtain reading of 37°55' on latitude arc.

From corner of secs. 28, 29, 32 and 33, I run N. 0°02' W. on true line between secs. 28 and 29, through creek bottom.

Begin abrupt ascent over bare rock surface, bears

```
Chains
                  N. 60° E. and S. 10° W.
 26.00
               Top of
                              700-foot ascent on east slope 1.50 chs.
                   east of south end of ridge.
 31.00
               Ravine, 400 ft. deep, heads 2.00 chs. west of line, course S. 60° E.
               Top of ascent 740 ft. above sec. corner, bears N. 20° E. and S. 20° W.; thence over timbered
 37..50
                  plateau.
 40.00
               Set trachyte boulder 20x12x10 ins.
                                                                             15 ins. in the
                  ground, for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face.
                  from which
              A pinion, 10 ins. diam., bears N. 70°30' W., 81 lks. dist., marked RES 4 S 29 B T
A pinion, 10 ins. diam., bears S. 59°15' E., 80 lks. dist., marked 4 S 28 B T
Cedar, 12 ins. diam., on line, I mark with 2 notch-
 42.92
                  es on N. and S. faces.
 48.00
               Begin descent, bears N. 20° W. and S. 20° E.
 60.00
               Base of 500-foot descent in straight wall ravine,
              course S. E.; begin precipitous ascent, bears N. W. and S. E.

Top of 520 ft. ascent, bears N. 80° W. and S. 80° Set, U. S. Forest Reserve Boundary Post No. 42, 24 ins. in ground, and build mound of earth, 6 ft.
75.00
80.00
                  base, 12 ft. high, around same for corner of
                  secs. 20, 21, 28 and 29, marked
T 33 S S 21 in N. E. quadrant
R 5 E S 28 in S. E. quadrant
S 29 in S. W. quadrant
S. 20 in N. W. quadrant
                       RESERVE in N. W. and S. W. quadrants, with 4
                       notches on E. and 2 notches on S. sides, from
                       which
                          A cedar, 10 ins. diam., bears N. 84° E., 136 lks. dist., marked T 33 S R 5 E S 21 B T A pinion, 24 ins. diam., bears S. 86°45' E., 125 lks. dist., marked T 33 S R 5 E S 28
                              BT
                          A pinion, 12 ins. diam., bears S. 58°45' W., 74 lks. dist., marked RES T 33 S R 5 E
                              S 29 B T
                          A pinion. 10 ins. diam.,
                                                                    bears N. 57° W., 67
                              1ks. dist., marked RES
                                                                      T 33 S
                                                                                    R 5 E
                              S 20 B T
              Land, mountainous, precipitous and level.
              Soil, bare rock and sandy rocky, 4th rate.
              Timber, cedar and pinion.
                                                                           July 19, 1904
             July 20: At corner of secs. 20, 21, 28 and 29 at 7^h06^m a.m., l.m.t., I set off 37^{\circ}56' on the lati-
                 tude arc and 20°42'30" N. on the declination arc
                 and establish a meridian with the solar. Mag-
                 netic declination 15°50' E.
             Thence I run N. 0°02' W. on true line between secs. 20 and 21,
              through timber, over level plateau.
Begin descent, bears N. 10° W. and S. 10° E.
29.00
             Base of 50-foot descent, bears N. and S. 10° E.; begin ascent, bears N. 10° E. and S., in swale; 1.50 chs. east of this point is elbow of ravine course S. 20° E. from N.
35.00
             Top of 60-foot ascent, bears N. 10° E. and S. 10° W. Set trachite boulder 20x10x10 ins., 6 ins. in
38.50
40.00
                 ground to solid rock and build mound of stone, \frac{1}{2} ft. base, \frac{1}{2} ft. high, around same for \frac{1}{4} seccorner, marked \frac{1}{2} on \mathbb{W}. face, from which
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A pinion, 14 ins. diam., bears N. 42°45' W., 42 lks. dist., marked RES ½ S 20 B T
A pinion, 10 ins. diam., bears S. 14°45' E., 65 lks. dist., marked ¼ S 21 B T
Begin descent, bears N. 10°W. and S. 10° E.
Chains.
 40.50
                 Base of 50-foot descent, bears N. and S. 10° E.; begin ascent, bears N. 10° E. and S. Top of 60-foot ascent, bears N. 10° E. and S.10°W.
 43.00
 46.00
                 Leave timber, enter open sage brush plateau, bears N. 80° E. and S. W.

Set'U. S. Forest Reserve Boundary Post No. 43, 24 ins. in ground, and raise mound of stone and earth, 3 ft. base, 1½ ft. high, around same, for
 65.00
 80.00
                    corner of secs. 16, 17, 20 and 21, marked T 33 S S 16 in N. E. quadrant
                     R 5 E S 21 in S. E. quadrant
                    S 20 in S. W. quadrant
S 17 in N. W. quadrant
RESERVE in N.E., N.W. and S.W. quadrants, with
4 notches on E. and 3 on S. sides, from which
A cedar, 8 ins. diam., bears S. 71°30' E.,
                               107 lks. dist., marked T 33 S R 5 E S 21
                               BT
                          No other trees available.
                 Land, level and broken. Soil, sandy and rocky, 4th rate.
                Timber, cedar and pinion.
                From corner of secs. 16, 17, 20 and 21, I run
                 East on true line between secs. 16 and 21, over
                     level sage brush flat plateau.
                Enter timber, bears N. and S. W. Set trachyte boulder 30x10x8 ins., 20 ins. in ground, for 4 sec. corner, marked 4 on N. face,
 39.00
 40.00
                    from which
                          A junipor, 10 ins. diam., boars N. 40° W., 63 lks. dist., marked RES & S 16 B T A juniper, 8 ins. diam., bears S. 81°15' W., 140 lks. dist., marked & S 21 B T
44.00
                Begin descent, bears N. and S.
 66.00
                Base of 600-foot descent at dry branch, 15 lks.
                wide, course S.; begin ascent, bears N. and S. Top of 150-foot ascent, bears N. and S. E. Begin descent, bears N. 70° E. and S. 70° W. Set. S. Forest Reserve Boundary Post No. 44, 1 ft.
73.00
74.00
80.00
                    in ground to solid rock, and build mound of stone,
                    4ft. base, 2½ ft. high, around same for corner of secs. 15, 16,21 and 22, marked T 33 S · S 15 in N. E. quadrant R 5 E S 22 in S. E. quadrant
                    S 21 in S. W. quadrant
S 16 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with
                    3 notches on E. and S. faces, from which
                          A pinion, 10 ins. diam., bears N. 5°45' E., 35 lks. dist., marked RES T 33 S R 5 E
                               S 15 B T
                          A pinion, 6 ins. diam., bears S. 31° E., 101 lks. dist., marked T 33 S R 5 E S 22 B T A pinion, 8 ins. diam., bears S. 39°15' W., 61 lks. dist., marked T 33 S R 5 E S 21
                          A pinion, 10 ins diam., bears N. 33°15' W.,
                               69 lks. dist., marked RES T 33 S R 5 E
                              S 16 B T
                Land, level and mountainous.
                Soil, sandy and rocky, 4th rate.
                Timber, pinion and cedar.
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At the 2 sec. corner between secs. 16 and 21, I set off 20°39'30" N. on declination are and at
Chains
                    12h06m observe sun on the meridian and obtain a
                    reading of 37°56'30" on the latitude arc.
                From corner of secs. 15, 16, 21 and 22, I run
                East on true line between secs. 15 and 22 through
                timber along south slope of hill.
Begin descent, bears N. 20° E. and S. W.
   2.50
                Base of 100-foot descent at dry branch, 25 lks.
   8.00
                    wide, course S. 20° W.; begin abrupt ascent, bears H. and S. 20° W.
                Top of 100-foot ascent, bears N. W. and S. 80° E. Begin descent, bears N. E. and S. 80° W. Base of 50-foot descent at draw, course S. 20° W. begin ascent, bears N. 20° E. and S. 20° W. Set trachyte boulder 20x14x6 ins., 15 ins. in
  16.00
 18.00
 21.80
 40.00
                    ground, for 4 sec. corner, marked 4 on N. face,
                    from which
               A pinion, 16 ins. diam., bears N. 5° W., 74
lks. dist., marked RES ½ S 15 B T
A double pinion, 18 ins. diam., bears S. 42° W.,
98 lks. dist., marked ½ S 22 B T

Top of 350-foot ascent, bears N. and S., begin
abrupt descent, bears N. and S.
Base of 500-foot precipitous descent, bears N. and
S. Dry branch 20 lks. wide course S. 80° F
 41.00
 54.00
                   S. Dry branch, 20 lks. wide, course S. 80° E. for 5 chs., then S. from N. 80° E. for 4 chs.,
                   then from N.
               Begin precipitous ascent, bears N. and S. Falls on steep bare rock, too steep to set corner. Set U. S. Forest Reserve Boundary Post No. 45 on
 54.50
 80.00
 80.10
                   solid rock, and build mound of stone, 6 ft. base,
                   32 ft. high, around same for witness corner to
                   corner of secs. 14, 15, 22 and 23, marked
                  W C on top of cap over No. 45.
T 33 S S 14 in N. E. quadrant
R 5 E S 23 in S. E. quadrant
                  S 22 in S. W. quadrant
S 15 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants on top, with
                  2 notches on E. and 3 on S. sides, from which
A pinion, 10 ins. diam., bears S. 24°45' E.,
189 lks. dist., marked W C T 33 S R 5 E
                            S 23 B T
                        A pinion, 10 ins. diam., bears S. 14°45' W. 1ks. dist., marked W C T 33 S R 5 E S
                        A pinion, 10 ins. diam., bears N. 57°30' W.,
                           291 1ks. dist.,
R 5 E S 15 B T
                                                      , marked RES W C T 33 S
                        No northeast tree available.
               Corner falls on summit of bare rock ridge 550 ft.
                  above branch.
               Land, mountainous and precipitous.
               Soil, rocky and bare rock, 4th rate.
               Timber, pinion and cedar.
                                                                              July 20, 1904
              July 21: At true point for corner of secs. 14, 15, 22 and 23, which is 10 lks. west of witness corner at 7h06m a.m., 1.m.t., I set off 37°56'50" on latitude arc and 20°31' N. on the declination arc
                  and establish a meridian by solar observation. Magnetic declination 15°30' E.
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Thence I run

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East on true line between secs. 14 and 23, over
Chains.
                          nearly bare rock surface, with scattering timber
                       Begin ascent, bears N. and S.
      1.00
    20.60
                      Abrupt descent of 90 ft. into head of ravine, course N. 80° E.
                      Point of rock projecting, bears S. Falls on bare rock surface too steep to set corner.
    33.60
    40.00
    40.20
                      Set sandstone 26x18x14 ins., 18 ins. in the ground,
                          for witness corner to \(\frac{1}{4}\) sec. corner, marked
\(\text{W C \(\frac{1}{4}\) C on N. face, from which
\( A \) pinion, 14 ins. diam., bears N. 80° E., 25
\( \text{lks. dist., marked RES W C \(\frac{1}{4}\) S 14 B T
\( A \) cedar, 8 ins. diam., bears S. 65° E., 41 lks
\( \text{dist., marked W C \(\frac{1}{4}\) S 23 B T
\( \text{orner falls at foot of rock ridge, bearing N 70° W } \)
                      Corner falls at foot of rock ridge, bearing N.70° W and S. 70° E.
                     Base of 500-foot descent, at draw, 15 lks. wide, course S. 20° E.; begin gradual ascent, bears N. 60° W. and S. 20° E.

Top of 40-foot ascent, bears N. W. and S. E.; begin descent, bears N. W. and S. E.
   42.90
   49.00
                     Base of 30-foot descent at draw, 15 lks. wide, course S. 20° E.

Draw, 20 lks. wide, course S. 20° W., begin abrupt ascent, bears N. 20° E. and S. 20° W.

Top of 250-foot abrupt ascent, bears N. 20° E. and S. 20° W., continue gradual ascent.

Top of ascent bears N. E. and S. 20° W. 300 ft.
   50.50
   53.00
   61.00
   75.00
                     Top of ascent, bears N. E. and S. 20° W., 300 ft.
                          above draw.
                     Begin descent, bears N. E. and S. 20° W. Descent of 30 ft. over vertical ledge, bears
   77.00
   79.30
                     N. E. and S. W. Set U. S. Forest Reserve Boundary Post No. 46, 18 ins. in ground to solid rock and build mound of
  80.00
                        stone, 4 ft. base, 2 ft. high, around same for corner of secs. 13, 14, 23 and 24, marked T 33 S S 13 in N. E. quadrant R 5 E S 24 in S. E. quadrant
                        S 25 in S. W. quadrant
S 14 in N. W. quadrant
RESERVE in N. E. and N. W. quadrants, with 1
noteh on E. and 5 on S. sides, from which
A pinion, 14 ins. diam., bears N. 5°15' E., 41
lks. dist., marked RES T 33 S R 5 E S 15
                                A pinion, 14 ins. diam., bears S. 22°30' E., 59 lks. dist., marked T 33 S R 5 E S 24 B T
                               A pinion, 12 ins. diam., bears S. 59°15' W.,
45 lks. dist., marked T 33 S R 5 E S 23 B T
A cedar, 6 ins. diam., bears N. 28°45' W., 47
                                     lks. dist., marked RES T 33 S R 5 E
                    Corner falls on S. E. slope, 50 ft. below summit. Land, mountainous and precipitous.
                    Soil, sandy and bare rock, 4th rate.
                    Timber, pinion and cedar.
                    At this corner I set off 20°28' N. on the declination arc and at 12h06mlos observe sun on the meridian
                         and obtain a reading of 37°56'30" on latitude arc.
                   From corner of secs. 13, 14, 23 and 24, I run
East on true line between secs. 13 and 24, through
scattering timber over broken rocky surface,
descending, bears N. E. and S. W.
Draw 3 lbs. wide course S. T.
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Draw, 3 lks. wide, course S. E. Draw, 4 lks. wide, course S.

5.00

ا ليندُ سيد ڪڙا AQUARIUS FOREST RESERVE BOUNDARY.

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T. 33 S., R. 5 E.
Chains.
  25.00
                     Begin abrupt descent, bears N. 20° E. and S. 20° W.
                    Base of 500-foot descent at, steep creek, 20 lks. wide, course S. 20° W., dry stream; begin ascent, bears N. 20° E. and S. 20° W.
  33.00
                    Set sandstone 22x18x4 ins., 10 ins. in the ground to rock and build mound of stone, 5 ft. base,
 40.00
                         1 ft. high, around same for 1/4 sec. corner, marked
                        July 21, 1904.
                    July 22: At this corner at 9h06m a.m., l.m.t., I set off 37°56'30" on latitude arc and 20°17'30 N.
                         on the declination arc, and continue east.
                   on the declination arc, and continue east.

Top of 500 ft. ascent, bears N. and S.

Begin gradual descent, bears N. and S.

Draw, 5 lks. wide, course N. 80° E.

Set, U. S. Forest Reserve Boundary Post No. 47 2 ft.

in ground to solid rock and build mound of stone
and earth 5 ft. base, 1½ ft. high, around same
for corner of secs. 13, 18, 19 and 24, marked

T 53 S S 18 in N. E. quadrant
 64.00
 64.50
 71.00
 80.00
                       for corner of secs. 13, 18, 19 and 24, marked T 33 S S 18 in N. E. quadrant R 6 E S 19 in S. E. quadrant S 24 in S. W. quadrant R 5 E S 13 in N. W. quadrant RESERVE in N. W. quadrant, with 3 notches on N. and S. sides, from which A pinion, 12 ins. diam., bears N. 57°15' E., 64 lks. dist., marked T 33 S R 6 E S 18 B T A pinion, 10 ins. diam., bears S. 79°15' E., 124 lks. dist., marked T 33 S R 6 E S 19 B T
                  A pinion, 12 ins. diam., bears S. 44°30' W.,81 lks. dist., marked T 33 S R 5 E S 24 B T
A pinion, 10 ins. diam., bears N. 5° W., 5 lks. dist., marked RES T 33 S R 5 E S 13 B T
Corner falls on gradual east slope 50 ft. below
                   Land, mountainous and precipitous.
                   Soil, sandy and bare rock, 4th rate.
                   Timber, pinion and juniper.
                                                                                                          A. 17/1 .
                                            T. 33 S., Rs. 5 and 6 E.
                  From corner of secs. 13, 18, 19 and 24, T. 33 S.
                       Rs. 5 and 6 E., I run
                  North on true line between secs. 13 and 18, over
                       rolling and broken surface through timber.
                  Draw, 5 lks. wide, course N. 80° E.

Draw, 10 lks. wide, course S. 30° E.

Set sandstone 26x14x4 ins., 10 ins. in the ground to rock and build mound of stone, 3 ft. base, 1 ft. high, around same for 4 sec. corner, marked
  5.00
25.80
40.00
                      4 on W. face, from which
A pinion, 12 ins. diam., bears S. 75° E., 3
lks. dist., marked 4 S 18 B T
A pinion, 10 ins. diam., bears S. 22°30' W.,
86 lks. dist., marked RES 4 S 13 B T
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Draw, 6 lks wide, course S. 70° W. Draw, 10 lks wide, course S. 70° W. Draw, 20 lks wide, course S. 20° W. Same draw, course S. 20° E. Same draw, course S. 20° W. 41.75 49.50 58.40 60.00

AQUARIUS FOREST RESERVE BOUNDARY.

T. 33 S., Rs. 5 and 6 E.

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Chains
                 Set U. S. Forest Reserve Boundary Post No. 48, 18 ins. in ground to solid rock and build mound of
  00.08
                    ins. in ground to solid rock and build mound of earth, 6 ft. base, 2 ft. high, around same for corner of secs. 7, 12, 13 and 18, marked T 33 S S 7 in N. E. quadrant R 6 E S 18 in S. E. quadrant R.5 E. S 13 in S. W. quadrant S 12 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 2 notches on N. and 4 notches on S. sides, from which A pinion 10 ins. diam. bears N. 69°30' E.
                           A pinion, 10 ins. diam., bears N. 69°30' E., 56 lks. dist., marked T 33 S R 6 E S 7 B T
                          A cedar, 12 ins. diam., bears S. 35 E., 55 lks. dist., marked T 33 S R 6 E S 18 B T A cedar, 24 ins. diam., bears S. 23° W., 68 lks. dist., marked RES T 33 S R 5 E S 13
                              cedar, 16 ins. diam., boars N. 55°30' W., 28 lks. dist., marked RES T 33 S R 5 E S 12
                          A cedar, 16 ins. diam.,
                 Land, rolling and broken.
                Soil, sandy and rocky, 4th rate.
                Timber, pinion and cedar.
                                                                                     July 22, 1904.
                At the \frac{1}{4} sec. corner between secs. 13 and 18, I set off 20°16' N. on the declination arc, and at 12^{\rm h}06^{\rm m}13^{\rm s}0 observe sun on meridian and obtain a
                    reading of 37°57' on latitude arc.
                Note: Impossible to begin work earlier on account of long walks from camp in Deer Creek due to
                    scarcity of water.
                July 23: At the corner of secs. 7, 12, 13 and 18 at 9 a.m., 1.m.t., I set off 37°57'15" on latitude arc and 20°05'30" N. on the declination arc
                    and establish meridian with the solar. Magnetic
                    declination 15°54' E.
                Thence I run
                North between socs. 7 and 12 over rolling land,
                    through small juniper and pinion timber.
                Draw, 5 lks. wide, course S. 70° W. Begin descent, bears N. 80° E. and S. W.
15.00
28.00
                Base of 80-foot descent at ravine, course W. into
37.50
                   canyon, 2 chs. W. of line, the course of which is S. 20° W. Thence along W. slope.
               Set trachite boulder 20x14x8 ins., 15 ins. in the
40.00
                   ground, for 4 sec. corner, marked 4 on W. face,
                   from which
                         A pinion, 10 ins. diam., bears N. 15°15' W., 42 lks. dist., marked RES 4 S 12 B T
               A pinion, 8 ins. diam., bears S. 17°15' E., 36 lks. dist., marked ½ S 7 B T

Begin precipitous descent, bears N. E. and S. 30°W.
43.20
               Draw, 20 lks. wide, in canyon 150 ft. deep, course S. 30° W., east prong of steep creek.
Top of 150-foot ascent, bears N. 30° E. and
50.00
55.60
                   Š. 30° ₩.
59.00
               Begin descent, abrupt, bears N. 20° W. and S.20° E.
64.00
               Along steep west wall of canyon.
               Base of 150-foot descent at draw, 20 lks. wide, in same canyon, course S. 20° E.
78.00
               Begin abrupt ascent, bears N. 20° W. and S. 20° E. Draw, 10 lks. wide, course W. for 1 ch. into canyon Set"U. S. Forest Reserve Boundary Post No. 49, 1 ft. in ground to solid rock, and build mound of
78.20
79.50
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stone, 5 ft. base, 3 ft. high, around same for

AQUARIUS FOREST RESERVE BOUNDARY.

T. 33 S., Rs. 5 and 6 E.

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corner of secs. 1, 6, 7 and 12, marked T 33 S S 6 in N. E. quadrant R 6 E S 7 in S. E. quadrant R 5 E S 12 in S. W. qudrant
   Chains
                          S 1 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 1
                          notch on N. and 5 notches on S. sides, from
                          which
                                A pinion, 10 ins. diam., bears N. 42°45' E., 52 lks. dist., marked T 33 S R 6 E S 6 B T A pinion, 8 ins. diam., bears S. 63°45' E., 119 lks. dist., marked T 33 S R 6 E S 7 B T A pinion, 14 ins. diam., bears S. 32°30' W., 80 lks. dist., marked RES T 33 S R 5 E
                                     S 12 B T
                                A pinion, 10 ins. diam., bears N. 67°45' W. 72 lks. dist., marked RES T 33 S R 5 E.
                                                                                         bears N. 67°45' W.,
                                     SIBT
                    Land, mountainous and broken.
                    Soil, sandy and rocky, 4th rate.
                    Timber, pinion, pine and cedar.
                    Note: No work in p. m. on account of cloudy weather July 23, 1904.
                    July 25: At corner of secs. 1, 6, 7 and 12, at 7h06m15s a.m., 1.m.t., I set off 37°58'15" on latitude arc and 19°42' N. on the declination arc,
                         and establish a meridian with solar. Magnetic
                         declination 15°38' E.
                    Thence I run
                    North on true line between secs. 1 and 6, through
                         small timber, ascending, abrupt, bears N. W. and
                   Top of 150-foot ascent on W. end of spur.

Begin descent, bears E. and S. W.

Base of 50-foot descent at draw, 10 lks. wide,

course W. for 3 chs. to canyon draw, begin abrupt

ascent, bears E. and N.W.
 10.00
 10.40
 12.00
                   Top of 150-foot ascent, bears N. 10° W. and S.10° E. Begin descent, bears N. 10° E. and S. 10° W. Draw, 10 lks. wide, course S. W. at base of 70-foot descent, bears N. E. and S. W.; begin ascent, bears N. E. and S. W.;
 23,00
 34.75
                  bears N. E. and S. W.

Wash, 5 lks. wide, course S. W.

Set sandstone 24x12x4 ins., 18 ins. in ground for \( \frac{1}{4} \) sec. corner marked \( \frac{1}{4} \) on W. face, from which A pinion, 12 ins. diam., bears S. 80°30' E., 37 lks. dist., marked \( \frac{1}{4} \) S 6 B T

A pinion, 14 ins. diam., bears S. 57°45' W., 67 lks. dist., marked RES \( \frac{1}{4} \) S 1 B T

Top of 80-foot ascent, bears N. 80° E. and S. 80° W.

Begin abrupt descent, bears N. E. and S. W.

Base of 80-foot descent at draw, 15 lks. wide, course S. 30° W.; begin ascent, bears N. 30° E. and S. 30° W./

Top of 60-foot ascent on east end of spur.
36.00
40.00
43.50
44.60
53.00
                   Top of 60-foot ascent on east end of spur.
62.00
                  Draw, 5:1ks. wide, course S. E.
Elbow of draw, 10 lks. wide, course S. 20° E. from
N. 20° E.
Same draw, course S. 20° E.
Same draw, course S. 20° W.
64.00
72.50
76.20
77.65
79.40
                   Begin abrupt ascent up rock ledge, bears N. E. and
                       S. W.
79.80
                  Top of 30-foot ledge.
80.00
                  I mark cross on solid rock in place at corner and set U. S. Forest Reserve Boundary Post No. 50
                       set'N". S. Forest Reserve Boundary Post No. 50 over cross and build mound of stone 6 ft. base,
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3½ ft. high, around same for corner of Tps. 32

T. 33 S., Rs. 5 and 6 E.

Chains

and 33 S., Rs. 5 and 6 E., mar T 32 S S 31 in N. E. quadrant marked R 6 E S 6 in S. E. quadrant
T 33 S S 1 in S. W. quadrant
R 5 E S 36 in N. W. quadrant
RESERVE in N. E., N. W. and S. W. quadrants,
with 6 notches in N., S., E. and W. sides, from which

- A pinion, 10 ins. diam., bears N. 39°30' E., 119 lks. dist., marked RES T 32 S R 6 E
- A pinion, 6 ins. diam., bears S. 75°30' E., 17 lks. dist., marked T 33 S R 6 E S 6 B T A pinion, 12 ins. diam., bears S. 52°45' W., 86 lks. dist., marked RES T 33 S R 5 E S 1 B T
- A pinion, 12 ins. diam., bears N. 89°30' W., 54 lks. dist., marked RES T 32 S R 5 E S 36 B T

Land, mountainous and broken. Soil, rocky and sandy, 4th rate. Timber, small pinion, pine and cedar.

At this township corner I set off 19°38'30" N. on the declination arc and at 12h06m17s 1.m.t., observe sun on the meridian and obtain a reading of 37°59' on the latitude arc.

Line is checked throughout by backsights and foresights on prominent points, and p.m. and a.m. observations at end and beginning of next days work compared.

GENERAL DESCRIPTION. .

Township 33 S., R. 5 E., is rough, mountainous country, cut up by deep canyons draining to the south. Deer Creek and tributaries drain the western and central portion, and it is a stream of clear fresh water, though nearly all of the water is taken out and carried by ditch into T. 33 S., R. 4 E., into Boulder Creek Valley. Steep Creek drains the castern portion and is a dry stream in deep sand rock canyon.

Timber is all small and inferior, principally pinion, pine and cedar. A level plateau covered with sage brush and scattering junipers lies in secs. 16, 17, 20 and 21, and with water could be made fertile.

Tps. 32 and 33 S., R. 6 E.

At corner of Tps. 32 and 33 S., Rs. 5 and 6 E., at lh06ml5s l.m.t., I set off 37°59' on the latitude arc and 19°38' N. on the declination arc and establish meridian by solar observation. Magnetic declination 15°48' E.

Thence I run

East on true line between secs. 6 and 31, over broken rocky surface, through small timber.

Begin descent over 30-foot sandstone ledge, bears N. 20° E. and S. 20° W.

Draw, 15 lks. wide, course S. 20° W., at base of 50-foot descent.; begin ascent, bears N. 20° E. and S. 20° W.

5.50 Top of 70-foot ascent, bear's N. 20° E. and S. 20°W.

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AQUARIUS FOREST RESERVE BOUNDARY.

Tps. 32 and 33 S., R. 6 E.

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Chains.
                    Begin abrupt descent, bears N. 20° E. and S. 20° W.
   13.50
                   Base of 90-foot descent at draw, 20 lks. wide, course S. W.; begin ascent, bears N. 70° E. and S. W.; Top of 80-foot ascent, bears N. 80° E. and S. W.; thence along bench of ledge.
   18.00
   24.00
                    Begin descent over ledge, bears N. 80° W. and
   28.60
                        S. 86° E.
                   Base of 40-foot descent at draw, 10 lks. wide, course N. 80° W.
   33.00
                   Draw, 5 lks. wide, course N. W.; begin abrupt ascent, bears N. 20° W. and S. 20° E.

Set a sandstone 22x14x4 ins., 18 ins. in the ground for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on N. face, from
   36:50
   38.27
                             A pinion, 12 ins. diam., bears N. 18°45' W., 43 lks. dist., marked RES 4 S 31 B T
                             A pinion, 10 ins. diam., bears S. 11°30' W., 88 lks. dist., marked 4 S 6 B T
                  50 ft. vertical ledge, bears N. and S. Top of 250-foot ascent, bears N. 20° W. and S.20° W. Begin descent, bears N. and S.
  40.50
  46.00
  60.00
                  Begin descent, bears N. and S.
Base of 300-foot descent, at draw, 15 lks. wide,
course S.; begin abrupt ascent.
Draw, 5 lks. wide, course S. 70° W.
Set, U. S. Forest Reserve Boundary Post No. 51, 10
ins. in ground to solid rock and build mound of
stone, 6 ft. base, 3 ft. high, around same for
corner of secs. 5, 6, 31 and 32, marked
T 32 S S 32 in N. E. quadrant
R 6 E S 5 in S. E. quadrant
  74.80
  78.00
  78.27
                            R 6 E S 5 in S. E. quadrant
T 33 S S 6 in S. W. quadrant
                            S 31 in N. W. quadrant
                            RESERVE in N. E. and N. W. quadrants on top,
                            with 5 notches on E. and 1 on W. sides, from
                            which
                            A pinion pine, 10 ins. diam., bears N. 33°15'E) 34 lks. dist., marked RES T 32 S R 6 E S
                                 32 B T
                           A pinion, 14 ins. diam., bears S. 17°45' E., 62 lks. dist., marked T 53 S R 6 E S 5 B T A pinion, 12 ins. diam., bears S. 15° W., 38 lks. dist., marked T 33 S R 6 E S 6 B T A pinion, 14 ins. diam., bears H. 30°30' W., 115 lks. dist., marked RES T 32 S R 6 E
                                S 31 B T
                 Corner falls on hill sloping to W. 50 ft. above
                 Land, mountainous and precipitous.
                 Soil, rocky and bare rock, 4th rate.
                 Timber, pinion, cedar and some scattering pine.

July 25, 1904.
                   uly 26: At corner of secs. 5, 6, 31 and 32, at 7^{h}06^{m}15^{s} a.m., l.m.t., I set off 37°59' on the latitude arc and 19°29' N. on the declination arc and establish meridian by solar observation. Magnetic declination 15°48'
                 Thence I run
                East on true line between secs. 5 and 32, through
                     small timber over broken surface, ascending.
10.00
                Top of ascent, bears N. and S., 200 ft. above sec.
                     corner.
                                      Line strikes north base of small white
               sandstone butte, which stands up 30 ft. high 50 lks. south of line.
Abrupt descent of 30 ft. over sandstone lodge, bears N. E. and S. W.
12.00
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ACUARIUS FOREST RESERVE BOUNDARY.

Tps. 32 and 33 S., R. 6 E.

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Chains
   13.50
                Draw, 5 lks. wide, course S.; continue descent,
                   now gradual, along south slope of mountain.
  23.50
                Draw, 5 lks. wide, course S.
                Begin abrupt descent, bears N. and S.
  29.00
               Begin abrupt descent, bears N. and S.
Top of nearly vertical cliff, bears N. 60° E. and
S., down which chaining is impossible.
At this point I set cedar pole, 10 ft. long, in
mound of stone, 6 ft. base, 3 ft. high, for line
mark, also for triangulation point, and proceed
to base of cliff in open flat, and set instru-
ment on line by trial test. I then direct rod
S 43°08' W for 16.63 chs. dist. from which
  30.89
                  S. 43°08' W. for 16.63 chs. dist., from which
                  point cedar pole on top of cliff bears N. 63°31'W.
               Thence we have
Sin 26°29' : Sin 106°39' = 16.63 dist.
               which gives dist. of 35.73 chs. from top of cliff to instrument
               or instrument at 66.62 chs.
               The course of S. 43°08' W. for
              16.63 chs. gives
Lat. = 12.14 chs. S.
Dep. = 11.37 chs. W.
              Thence from the end of this course
                                                                          I measure
                  West 15.25 chs., thence north 12.14 chs. and at
 40.00
              Set sandstone 20x14x4 ins., 6 ins. in ground to
                 rock and build mound of stone, 3 ft. base, 1\frac{1}{2}
                 ft. high, around same for 1 sec. corner, marked on N. face, from which A cedar, 12 ins. diam., bears N. 47°50' E., 43
                          lks. dist.
                                            , marked RES \frac{1}{4} S 32 B T
                      A pinion, 6 ins. diam., bears S. 53° E., 26 lks. dist., marked 1 S 5 B T
                Alignment at \( \frac{1}{4} \) sec. corner checked by backsight on cedar pole on top of cliff; by measurement
                 back from 4 sec. corner and by observation north from offset line the notes on true line read as
                 follows:
              Draw, 10 lks. wide, course S. 30° E., at base of 600-foot cliff and 800-feet below last summit;
38.00
                 begin abrupt rocky ascent, bears N. W. and S. E.
              Top of 400-foot ascent on south nose of red sand-
46.00
                 stone pinnacle; begin precipitous descent, bears N. 20° E. and S. 20° W.
             Base of 500-foot descent, bears N. and S.; thence
58.00
                 across open flat.
             Draw, 10 lks. wide, course S. 20° W. "Grand Gulch" Creek, 20 lks. wide, 8 ft. banks,
67.20
71.30
                 course S. W.; stream fresh water, 5 lks. wide.
                 2 ins. deep.
             Begin ascent, bears N. E. and S. W. Set N. S. Forest Reserve Boundary Post No. 52, 18 ins. in ground to solid rock and build mound of
73.00
80.00
                stone, 5 ft. base, 2\frac{1}{2} ft. high, around same, for corner of secs. 4, 5, 32 and 33, marked T 32 S S 33 in N. E. quadrant R 6 E S 4 in S. E. quadrant T 33 S S 5 in S. W. quadrant
                S 32 in N. W. quadrant
                RESERVE in N. E. and N. W. quadrants, with 4 notches
                on E. and 2 on W. sides, from which
                     A pinion, 12 ins. diam., bears N. 47° E., 151 lks. dist., marked RES T 32 S R 6 E S 33
                         BT
                     A pinion, 12 ins. diam., bears S. 33° E., 86 lks. dist., marked T 33 S R 6 E S 4 B T
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Tps. 32 and 33 S., R. 6 E.

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chains
                           A pinion, 10 ins. diam.,
                                                                            bears S. 21°15' W.,
                                162 lks. dist., marked T 33 S R 6 E
                           A pinion, 10 ins. diam., bears N. 1°45' W.
                                173 lks. dist., marked RES
                                                                                    T 32 S R 6 E
                               S 32 B T
                 Land, mountainous and precipitous.
                 Soil, rocky and sandy, 4th rate.
                 Timber, small pinion and cedar.
                 Larger part of day taken up in finding way down cliff, which is almost impassable.
                                                                                      July 26, 1904.
                 July 27: At corner of secs. 4, 5, 32 and 33, at 7^{h}06^{m}15^{s} a.m., l.m.t., I set off 37°59' on latitude arc and 19°15'45" N. on the declination arc
                     and establish meridian by solar observation.
                     Magnetic declination 15°45' E.
                 Thence I run
                 East on a true line between secs. 4 and 33, through
                 very scattering timber, ascending.
Top of ascent, bears N. and S., 40 ft. above sec.
   1.50
                     corner; thence over broken surface of bare washed
                    hard pan formation.
   2.90
                Dry wash, 5 lks. wide, course N. 30° E.
                Dry wash, 5 1ks. wide, course N. 50° E.
Dry wash, 5 1ks. wide, course N.
Dry wash, 5 1ks. wide, course N. 50° W.
Dry wash, 5 1ks. wide, course S.
Draw, 10 1ks. wide, course S. 20° W.
Set sandstone 20x14x4 ins., 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which A pinion, 12 ins. diam., bears N. 41° E., 11 1ks. dist., marked RES $\frac{1}{4}$ S 33 B T

A pinion, 8 ins. diam., bears S. 55°15' E. 88
   9.00
12.50
25.30
28.50
40.00
                          A pinion, 8 ins. diam., bears S. 55°15' E., 82 lks. dist., marked 4 S 4 B T
40.50
                Draw, 10 1ks. wide, course S. 60° W.
               Wash, 5 lks. wide, course S. W.
Dry wash, 50 ft. deep, 5 lks. wide at bottom,
course S. W.
Dry wash, 5 lks. wide, course S. W.; begin abrupt
ascent, bears N. W. and S. E.
45.00
51.20
53.00
                Top of 300-foot ascent on talus of south end of
68.50
                   cliff of a red sandstone ragged butte, the top of which bears N. about 20.00 chs. dist.
69.00
                Begin descent, bears N. E. and S. W.
               Dry wash, 5 lks. wide, course S. E. Set U. S. Forest Reserve Boundary Post No. 53, 18 ins. in ground to rock, and build mound of stone, 5 ft. base, 2 ft. high, around same for witness
75.00
79.70
                   corner to corner of secs. 3, 4, 33 and 34, marked
                   W C on top above number
                   T 32 S S 34 in N. E. quadrent
                   R 6 E S 3 in S. E. quadrant T 33 S S 4 in S. W. quadrant
                  T 33 S S 4 in S. W. quadrant
S 53 in N. W. quadrant
RESERVE in N. W. quadrant, with 3 notches on
E. and W. sides, from which
A cedar, 14 ins. diam., bears N. 75°30' E., 5
- lks. dist., marked T 32 S R 6 E S 34 B T
A pinion, 10 ins. diam., bears S. 71° E., 69
lks. dist., marked T 33 S R 6 E S 3 B T
                         A cedar, 14 ins. diam., bears S. 24°30' W., 34 lks. dist., marked T 33 S R 6 E S 4 B T A cedar, 10 ins. diam., bears N. 56° W., 52 lks. dist., marked RES T 32 S R 6 E S 35
                             BT
```

Tps 52.and 30 S.. R. 6 E.

Chains 80.00

24.39

40.00

43.20

51.00

61.50

66.05 69.90 79.30 80.00

True point for corner falls in bed of draw, IC Dis. wide, course S. E., 200 ft. below last swent. Land, mountainous and broken. Soil, hardpan and sand rock, 4th rate. Timber, scattering small pinion pine and cedar.

At this corner I set off 19°12' N. on the declination are and at 120060185 1.m.t., observe sun on the meridian and obtain reading of 37°59' on the latitude arc.

T. 32 S., R. 6 E.

From true point for corner of secs. 5, 4, 55 and 54, Tps. 32 and 33 S., R. 6 E., which is 50 lks. east of witness corner, I run
N. 0°02' W. on true line between secs. 33 and 34,

through scattering timber, over broken surface

asconding. 18.72

asconding.

I offset to east 1.81 chs. to pass end of vertical cliff on east end of red sandstone butte.

Offset west 1.81 chs. to true line. Top of cliff opposite 21.00 chs. is about 600 ft. above sec. corner, thence descending bears S. W. and S. E., down talus of cliff over hard pan formation.

Set sandstone 20x10x8 ins., 8 ins. in the ground to solid rock and build mound of stone, 3 ft. base, 1 ft. high, around same for 1 sec. corner, marked 1 on V. face, from which
A pinion, 12 ins. diam., bears N. 14°15' E.,
113 lks. dist., marked 1 S 34 B T
A pinion, 8 ins. diam., bears N. 29° V., 148

lks. dist., marked RES 1 S 33 B T

Dry wash, 3 lks. wide, course N. E. Wash, 5 lks. wide, course N. E.

Draw, 10 1ks. wide, course R. 70° E. at base of descent, 600 ft. below summit of butte.

Draw, 10 1ks. wide, course R. 70° E.

Draw, 10 1ks. wide, course R. 70° E.

Draw, 10 1ks. wide, course R. 70° E.

Draw, 10 1ks. wide, course S. 20° E.

Set'0. S. Forest Reserve Boundary Post No. 54 1 ft.

in ground to solid rook and build wound of ster.

in ground to solid rock and build round of stone

5 ft. base, 3 ft. high, around same for corner of secs. 27, 28, 33 and 34, marked T 32 S S 27 in N. E. quadrant R 6 E S 34 in S. E. quadrant

R 6 E S 34 in S. E. quadrant
S 33 in S. W. quadrant
S 28 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 3
notches on E. and 1 on S. sides, from which
A pinion, 8 ins. diam., bears N. 73°lo' E.,
lks. dist., marked T 32 S R 6 E S 27 B T
A cedar, 14 ins. diam., bears S. 29° E., 27
lks. dist., marked T 32 S R 6 E S 24 B T
A cedar, 10 ins. diam., bears S. 14°15' W.,
36 lks. dist., marked RES T 32 S R 6 E
S 33 B T S 33 B T

A cedar, 10 ins. diam., bears N. 34° W., 44 lks. dist., marked RES T 32 S R 6 E S 28

Land, precipitous and broken. Soil, sand rock and hardpan, 4th rate.

Timber, scattering cedar and pinion pine. July 27, 1904

In secs. 33 and 34 are some very perfect specimens of petrified wood, variagated in color, occurring T. 32 S., R. 6 E.

```
in sections from 6 ins. to 2 ft. long, of white
  Chaing.
                    trunks of trees, often 2 ft. in diam.
                    set off 38°00' on latitude arc and 19°02' N. on the declination arc and at 7h06ml5 a.m., l.m.t.,
                    establish meridian with solar. Magnetic declina-
                    tion 15°44'
                Thence I run
N. 0°02' W. between secs. 27 and 28, over rough
                broken surface, through timber.

Dry wash, 8 lks. wide, course S. E.

I set pole 10 ft. long in mound of stone for tri-
 10.00
 13.18
                    angulation point up steep cliff.
               angulation point up steep cliff.

Draw, 10 lks. wide, course S. E. Begin abrupt ascent up steep talus of cliff; no base at foot being practical I proceed to top of cliff and set up on line by trial test, from instrument, pole bears S. 0°02' E. I then direct rod S.53°47' E. 15.64 chs. dist., from which point pole bears S. 31°55' W.
 15.20
                Sin 31°57' : Sin 94°18' = 15.64 : dist.
                   from which by nat. functions dist. = 29.47 chs.
                                  13.18
                                   42.65
                   from which point I chain
               back on line 6.65 chs. to
Top of 300-foot vertical ledge, bears S. W. and S. R.
36.00
               Falls on sandstone boulder 15x15x12 ft. above ground, at the exact point for 2 sec. corner I mark cross (+) with 2 on north side of cross (+) for 2 sec.
40.00
                   corner, from which
                         A cedar, 14 ins. diam., bears N. 59° E., 69 lks. dist., marked 1 S 27 B T A cedar, 12 ins. diam., bears N. 56° W., 28
               lks. dist., marked RES & S 28 B T
Point for triangulation; top of ascent 800 ft. above draw, bears S. W. and S. E., thence over rolling
42.65
                   plateau.
               Draw, 10 lks. wide, course W.
Draw, 12 lks. wide, course N. 80° W.
Draw, 10 lks. wide, course S. W.
Set U. S. Forest Reserve Boundary Post No. 55, 2
1t. in ground to solid rock and build mound of
57.40
69.50
71.20
80.00
                  stone, 3 ft. base, 1½ ft. high, around same for corner of secs. 21, 22, 27 and 28, marked T 32 S S 22 in N. E. quadrant R 6 E S 27 in S. E. quadrant
                  S 28 in S. W. quadrant
S. 21 in N. W. quadrant
                  RESERVE in N. W. and S. W. quadrants, with 3
                  notches on E. and 2 notches on S. sides, from
                  which
                        A pinion, 14 ins. diam., bears N. 19° E.,
                       lks. dist., marked T 32 S R 6 E S 22 B T
A pinion, 8 ins. diam., bears S. 58°50' E., 33
lks. dist., marked T 32 S R 6 E S 27 B T
A cedar, 14 ins. diam., bears S. 45°45' W., 80
- lks. dist., marked RES T 32 S R 6 E S 28
                        A pinion, 16 ins. diam., bears N. 8°30' W., 138
                            lks. dist., marked RES T 32 S R 6 E
              Land, precipitous and rolling and broken.
              Soil, sandy and rocky, 4th rate.
              Timber, pinion pine and cedar.
              No work in p.m. on account of cloudy weather.
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July 28, 1904.

T. 32 S., R. 6 E.

```
July 29: At corner of secs. 21, 22, 27 and 26, at 7 C6 15 a.m., l.m.t., I set off 38 C1' on the latitude arc and 18 48' H. on the declination
 Chains
                 are and establish a meridian with the solar.
                 Thence I run
              N. 0°02' W. on true line between secs. 21 and 22,
                 over rolling plateau, through timber.
 19.00
              Begin abrupt descent, bears K. 70° E. and W.
28.00
             Head of ravine, 200 ft. deep/ course W., 1.20 chs.
                 to canyon.
             Base of 500-foot descent in narrow walled canyon,
35.00
             near head of same, course S. 80° W.; begin abrupt ascent, bears N. 80° E. and S. 80° W.

Set sandstone 28x10x8 ins., 12 ins. in the ground to rock and build mound of stone 2½ ft. base, 1 ft. high, around same for ½ sec. corner, marked
40.00
                A pinion, 10 ins. diam., bears S. 19°45' E.,
60 lks. dist., marked \( \frac{1}{4} \) S 22 B T
A pinion, 10 ins. diam., bears H. 62° E., 50
lks. dist., marked RES \( \frac{1}{4} \) S 21 B T
             Corner falls on bench of canyon wall.
             Top of ascent, 500 ft. above draw, bears N. W. and
41.50
                S. 70° E.
47.50
             Begin abrupt descent, bears N. 20° E. and S. W.
50.50
             Descent becomes precipitous, bears W. 5° E. and S. 30° W.
            Base of 600-foot descent in draw, 10 lks. wide, course S. 20° W. from N. Leave draw, course S. from N. 20° E.; begin pre-
65.00
75.00
                cipitous ascent.
79.00
             Top of canyon wall; continue abrupt ascent, bears
             N.F. and S. 30° W. Set U. S. Forest Reserve Boundary Post No. 56 i ft.
80.00
                in ground to solid rock and build nound of stone,
               5 ft. base, 5 ft. high, around same for corner of secs. 15, 16, 21 and 22, marked T 32 S S 15 in N. E. quadrant R 6 E S 22 in S. E. quadrant
               S 21 in S. W. quadrant
S 16 in N. W. quadrant
RESERVE in N. E., N. W. and S. W. quadrants,
with 3 notches on E. and S. sides, from which
A cedar, 10 ins. diam., bears N. 76°15' E.,
                       11 1ks. dist., marked RES T 32 S R 6 E
                       S 15 B T
                    A cedar, 14 ins. diam., bears S. 25°45' E. 50 lks. dist., marked T 32 S R 6 E S 23
                       BT
                       pinion, 14 ins. diam., bears S. 28° W., 28 lks. dist., marked RES T 32 S R 6 E S 21
                    A pinion, 14 ins. diam.,
                    A cedar, 18 ins. diam., bears N. 52° W.,
                       lks. dist., marked RES T 32 S
                                                                          R 6 E
                       BT
           Corner falls on S. E., rocky slope, 50 ft. above draw, in bed of canyon.
Land, mountainous and precipitous.
            Soil, sandy and rocky, 4th rate.
            Timber, small cedar and pinion pine.
            Note: Cloudy from 10.30 a.m. to 4 p.m.; no noon
               observation and no work between these hours.
                                                                     July 29, 1904
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T. 32 S., R. 6 E.

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Chains July 30:
                                 Cloudy weather prevents work before
                               At corner of secs. 15, 16 21 and 22, at
                   9_a.m.
                   9h06m15s a.m., l.m.t., I set off 38°01'30" on latitude arc and 18°32' N. on the declination
                   are and establish meridian with the solar.
               Thence I run
               East on true line between secs. 15 and 22, through small timber, over broken surface, descending
                   abruptly.
 3.20
               Base of 250-foot descent at draw, 10 lks. wide,
                   course S. W.; begin abrupt ascent.
               Draw, 20 lks. wide, rock bottom, course N. 70° W. Enter draw, 15 lks. wide, course N. 80° W. from E.
  9.70
 18.40
20.00
               Leave draw, course W. from S. 80° E.
               Draw, 5 lks. wide, course S. 80° W. Same draw, course N. 80° W.
20.50
23.00
              Top of 700-foot ascent, on ridge, bears N. 30° W.
32.00
                  and, S. 30° E.
               Begindescent, bears N. and S.
34.00
38.00
               Draw, 5 lks. wide (near head), course N. 20° E.;
                  base of 50-foot descent; thence over rolling
                  surface, sloping to N.
40.00
               Set sandstone 22x14x4 ins., 18 ins. in the ground
                  for \frac{1}{4} sec. corner, marked \frac{1}{4} on N. face, from
                  which
                       A pinion, 16 ins. diam., bears N. 39° E., 30 lks. dist., marked RES & S 15 B T
A pinion, 12 ins. diam., bears S. 66°30' E.,
7 lks. dist., marked & S 22 B T
              Draw, 5 lks. wide, course N. Open hollow draw, 5 lks. wide, course N.
52.50
64.50
              Open swail, 3 chs. wide, drains to N. 20° W. Set U. S. Forest Reserve Boundary Post No. 57, 3 ft. in ground, with mound of earth, 4 ft. base,
71.50
80.00
                 1 ft. high, around same for corner of secs. 14, 15, 22 and 23, marked T 32 S S 14 in N. E. quadrant R 6 E S 23 in S. E. quadrant
                 S 22 in S. W. quadrant
S 15 in N. W. quadrant
                 RESERVE in N. E. and N. W. quadrants, with 2 notches on E. and 3 on S. faces, from which A pinion, 18 ins. diam., bears N. 74° E., lks. dist., marked RES T 32 S R 6 E
                      A pinion, 12 ins. diam., bears S. 81° E., 157 lks. dist., marked T 52 S R 6 E S 23 B T A pinion, 16 ins. diam., bears S. 64° W., 371 lks. dist., marked T 32 S R 6 E S 22 B T A pinion, 12 ins. diam., bears N. 27°50' W., 345 lks. dist., marked RES T 32 S R 6 E S 15 B T
                                                                                                 371.
             Land, mountainous and rolling.
             Soil, rocky and sandy, 4th rate.
             Timber, small pinion-pine and cedar.
             At this cornerI set off 18°30' N. on the declination arc and at 12h06m14s 1.m.t., observe sun on meridian and obtain a reading of 38°01'30" on the
                 latitude arc.
             From corner of secs. 14, 15, 22 and 23, I run East on true line between secs. 14 and 23.

Magnetic declination 15°40' E.; through scat-
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Magnetic declination 15°40' E.; through scattering timber, over rolling land.

4.50 Begin abrupt descent, bears N. and S.
Head of draw bears S. 60° E.
Begin precipitous descent down canyon wall.

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Chains
                Head of canyon draw, course S. 80° E. Base of 900-foot descent in narrow canyon.
 16.00
 20.00
                                                                                              Draw.
                   15 lks. wide, course S., heads 10.00 chs. N. of
                   line; begin precipitous ascent.
 26.00
                Top of canyon wall; continue abrupt ascent, bears
                   N. and S.
                Top of 900-foot ascent, bears N. 20° W. and
 55.80
                   Š. 20° E.
 34.50
                Begin precipitous descent, bears N. 20° E. and S.
                Set sandstone 22x16x6 ins., 6 ins. in ground to
 38.62
                   solid rock and build mound of stone, 3 ft. base,
                   if ft. high, around same for witness corner to sec. corner, marked W C 1 on H. face, from
                   Which
                        A pinion, 6 ins. diam., bears N. 63° W., 7 lks dist., marked RES W C & S 14 B T
              A pinion, 10 ins. diam., bears S. 51° W., 37 lks. dist., marked W C & S 23 B T

Descend over nearly vertical cliff, bears N. 20° E. and S. 50° E.

True point for & sec. corner falls on side of cliff
 38.70
 40.00
                   toosteep to be accessible.
               Base of 800-foot descent at draw, 15 lks. wide, course 5. 20° E.; begin ascent over talus of cliff, bears E. 20° V. and S. 20° E.
 54.00
              Begin precipitous ascent, bears N. W. and S. Top of 500-foot eliff, bears N. 20° W. and S. Set, U. S. Ferest Reserve Boundary Post No. 58, 6 ins. in ground to solid rock and build mound of stone, 5 ft. base, 5 ft. high, around same for witness corner of secs. 13, 14, 25 and 24, marked
 77.00
 78.60
79.90
                  WC on top of cap
                 W C on top of cap
T 32 S S 13 in R. E. quadrant
R 6 E S 24 in S. Y. quadrant
S 22 in S. W. quadrant
S 14 in R. W. quadrant
RESERVE in R. E. and R. W. quadrants, with 1
hoteh on T. and S on S. faces, From which
A pinion, 12 ins. diam., bears R. 52° E., 77
lks. dist., marked RES W C T 32 S R 6 E
                           SREBT
                       A pinlon, 3 ins. diam., bears S. 25°45' E., lks. dist., marked V C T S2 S R 6 E S
                                                                                                     90
                       A pinion, 12 ins. dlam., bears 8. 55°45' W., 57 lks. dist., marked W C T 52 S R 6 E
                           S 23 B T
                       A pinion, 14 ins. diam., bears H. 15°50' W. 41 lkg. dist., marked RES W C T 52 S R
                                                                                    T 58 S R 6 3
                           S 14 B T
00.00
              True point for comer of secs. 15, 14, 23 and 24 fails
                  on rock ledge too steep for mound of stone to
                  stand.
              Witness corner falls on bench on W. slope of cliff
                  500 ft. above draw.
              Land, procipitous and mountainous.
              Soil, sandy, rocky, 4th rate.
              Timber, pinion pine and cedar.
                                                                             July 30, 1904.
                                 On account of cloudy and rainy entire
             August 1:
             day, no work.

August 2: At true point for corner of secs. 13, 14
23 and 24, which is 10 lks. E. of witness corner, at 706m a.m., 1.m.t., I set off 38°01'30" on latitude are and 17°49' N. on the declination
                 are and observe sun on the meridian. Magnetic
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Chains
                    declination15°40' E.
                 Thence I run
                East on true line between secs. 13 and 24, through
                    timber, ascending abruptly.
                Top of ascent, bears N. and S., 300 ft. above
    8.50
                    sec. corner.
  10.00
                 Begin descent, bears N. and S.
  12.20
                Descent becomes precipitous.
                Base of 500-foot descent at ravine in crevasse, 15 lks. wide, course S. 20° E.; begin precipi-
  14.00
                tous ascent.
Top of canyon wall, bears N. W. and S. 20° E.; con-
 18.90
                    tinue abrupt ascent.
 22.00
                Top of 500-foot ascent, bears N. and S.; thence
                over rolling plateau.
Set sandstone 28x14x3 ins., 21 ins. in ground for
 40.00
               Set sandstone 28x14x3 ins., 21 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, from which A pinion, 12 ins. diam., bears N. 69° E., 16 lks. dist., marked RES $\frac{1}{4}$ S 13 B T A pinion, 14 ins. diam., bears S. 13°50' E., 74 lks. dist., marked $\frac{1}{4}$ S 24 B T Set_U. S. Forest Reserve Boundary Post No. 59, 18 ins. in ground to solid rock, and build mound of stone, 3 ft. base, 2 ft. high, around same for corner of secs. 13, 18, 19 and 24, marked T 32 S S 18 in N. E. quadrant R 7 E S 19 in S. E. quadrant S 24 in S. W. quadrant
 80.00
                   S 24 in S. W. quadrant
                   R 6 E S 13 in N. W. quadrant
                   RESERVE in N. W. quadrant, with 3 notches on
                    N. and S. sides, from which
A pinion, 10 ins. diam., bears N. 68°30' E.,
48 lks. dist., marked T 32 S R 7 E S 18
                        A yellow pine, 28 ins. diem., bears S. 54° E., 15 lks. dist., marked T 32 S R 7 E S 19
                        A yellow pine, 24 ins. diam., bears S. 42°30'W. 108 lks. dist., marked T 52 S R 6 E S 24
                        A yellow pine, 22 ins. diam., bears N. 26°45'W. 196 lks. dist., marked RES T 32 S R 6 E
                            S 13 B T
               Land, broken and rolling.
               Soil, rocky and sandy, 4th rate.
               Timber, pinion-pine, cedar and some scattering
                  yvllow pine.
              At corner of secs. 15, 18, 19 and 24, T. 32 S., Rs. 6 and 7 E., I set off 17°45' N. on the declination arc and at 12h06m 1.m.t., observe sun on meridian and obtain a reading of 38°01'30" on the latitude arc, which agrees with other data. Cloudy and no work between hours of 2.50 and 4 p.m.
                                     T. 32 S., Rs. 6 and 7 E.
              From corner of secs. 13, 18, 19 and 24 of T. 32 S.,
                  Rs. 6 and 7 E., I run
              North on true line between secs. 13 and 18, over
                  rolling tabloland, through timber. Magnetic declination 15°37' E.
28.50
              Open swail drains to N. 60° E.
              Set sandstone 18x8x4 ins., 12 ins. in the ground
40.00
                  for \frac{1}{4} sec. corner, marked \frac{1}{4} on \textit{V. face, from
```

A pine, 22 ins. diam., bears H. 58° W., 45 lks. dist., marked RES & S 13 B T A cedar, 14 ins. diam., bears S. 37°15' E.,

which

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93 lks. dist., marked 1 S 18 B T

Leave timber, enter sage brush flat, with scattering timber, bears W. and S. E.

Set 0. S. Forest Reserve Bounary Post No. 60, 30 ins. in ground, and build mound of earth, 3 ft. base, 1 ft. high, around same for corner of secs.

7. 12. 13 and 18 marked
   Chains
   49.00
   80.00
                      7, 12, 13 and 18, marked
T 52 S S 7 in N. E. quadrant
R 7 E S 18 in S. E. quadrant
                      S 13 in S. W. quadrant
                      R 6 E S 12 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 2
                      notches on N. and 4 on S. sides, from which
                            A pinion, 8 ins. diam., bears N. 28°45' E., 112 1ks. dist., marked T 32 S R 7 E S 7
                                BT
                           A pinion, 10 ins. diam., bears S. 44°30' E. 348 lks. dist., marked T 32 S R 7 E S 1
                                                                                            R7E S 18
                            A cedar, 10 ins. diam., bears S. 23°45' W.
                                132 lks. dist., marked RES T 32 S R 6 É
                                S 13 B T
                 No northwest tree available.
Land, rolling and level.
Soil, sandy, 4th rate.
Timber, pinion, cedar and some scattering yellow
                     and black pine.
                                                                                       August 2, 1904.
                August 3: At corner of secs. 7, 12, 13 and 18, T. 32 S., Rs. 6 and 7 E., at 7h06m a.m., 1.m.t., I set off 38°02' on latitude arc and 17°53'15" N.
                     on declination are and establish meridian with
                     the solar. Magnetic declination 15°40' E.
                 Thence I run
                 North on true line between secs. 7 and 12, over
                     rolling sage brush plateau.
                Enter timber, bears E. and W.
Begin descent, bears N. 80° E. and S. 20° W.
Draw, 10 lks. wide, course N. W., at base of 50-
foot descent, bears W. and S. E.; begin ascent,
20.00
22,00
25.50
                bears N. W. and S. E. Top of 50-foot ascent, bears N. and S. E.; thence
54.50
                    along W. slope of hill.
                Begin descent, bears N. 20° E. and S.
Set sandstone 20x12x4 ins. 6 ins. in ground to
36.50
38.83
                    solid rock and build mound of stone, 2\frac{1}{3} ft. base, 1 ft. high, around same for witness corner to \frac{1}{4} soc. corner, marked W C \frac{1}{4} on W. face, from which A pinion, 10 ins. diam., bears S. 28°30' E., 14 lks. dist., marked W C \frac{1}{4} S 7 B T

A cedar, 10 ins. diam., bears S. 36° W., 35 lks. dist., marked RES W C \frac{1}{4} S 12 B T
                Descent becomes precipitous.

True point for ½ sec. corner falls on side of canyon wall too steep to set corner.
38.90
40.00
58.00
                Base of 500-foot descent at draw, in canyon, 20
                   lks. wide, course N. 60° E.; begin precipitous ascent, bears N. 60° E. and W.
               Top of 500-foot ascent, bears N. 60° E. and W. Leave timber, enter sage brush plateau, bears N. E.
70.25
78.00
               and W. Set 70. S. Forest Reserve Boundary Post No. 61, 2 ft
80.00
                    in ground to rock and build mound of stone, 3 ft.
                   base, 1½ ft. high, around same for corner of secs. 1, 6, 7 and 12, marked

T 32 S S 6 in N. E. quadrant
R 7 E S 7 in S. E. quadrant
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S 12 in S. W. quadrant
R 6 E S 1 in H. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 1
notch on N. and 5 on S. faces, from which
    Chains
                                                   A pinion, 5 ins. diam., boars K. 72°15' 160 lks. dist., marked T 52 S R 7 E A cedar, 14 ins. diam., bears S. 38°45'
                                                          cedar, 14 ins. diam., bears S. 38°45' E., 242 lks. dist., marked T 32 S R 7 E S 7 B r pinion, 14 ins. diam., bears S. 21° W., 355 lks. dist. marked PFS B 72 S R 7 E R 7 S 8 R 7 E R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7 S 8 R 7
                                                            lks. dist., marked RES T 32 S
                                                   A pinion, 10 ins. diam., bears N. 48°15' W., 95 lks. dist., marked RES T 52 S R 6 E
                                                           SIBT
                                Land, precipitous and level.
                                Soil, rocky and sandy, 4th rate.
                                Timber, small pinion pine and cedar.
                               At this corner I set off 17°29' N. on the declination are and at 12h06m 1.m.t., observe cun on the
                                       meridian and obtain a reading of 38°03' on the
                                       latitude arc.
                              From corner of secs. 1, 6, 7 and 12 I run
North on true line between secs. 1 and 6, over
sage brush plateau, through scattering timber.
Enter timber, bears N. 80°E. and S. 80° W.; begin
gradual ascent, bears N. 70° E. and S. 70° W.
Top of 30-foot ascent, bears N. 80° E. and S.80° W.
Begin gradual descent, bears N. 80° E. and S.80° W.
Draw 10 lks. wide course N. 80° E. at been of
 20.00
 26.00
 29.00
 38.15
                               Draw, 10 lks. wide, course N. 80° E., at base of 50-foot descent; begin ascent, bears N. 80° W.
                             and S. 80° E.

True point for & sec. corner falls in draw, 10 lks. wide, course S. 80° E.

Set sandstone 28x16x6 ins., 10 ins. in ground to rock and build mound of stone, 3 ft. base, 1 ft. high around same, for witness corner to & sec. corner, marked W C & on W. face, from which A pinion, 10 ins. diam., bears S. 55° E., 24 lks. dist., marked W C & S 6 B T A pinion, 20 ins. diam., bears N. 81°45' W., 45 lks. dist., marked RES W C & B 1 B T Vertical lodge, 20 ft. high, bears E. and W. Top of abrupt ascent, continue gradual ascent, bears
                                      and S. 80° E.
40.00
40.20
42.20
43.00
                              Top of abrupt ascent, continue gradual ascent, bears
                                     E. and W.
54.00
                              Top of gradual ascent, bears E. and W., 100 ft.
                                     above draw/
55.00
                              Begin abrupt descent, bears N. 80° W. and E.
54.83
                              Set flag pole in mound of stone for line marking
                                     and test backsights.
                             Begin precipitous descent over nearly vertical cliff, bears N. W. and S. E., down which chaining is impossible. To ascertain distance I erect
63.51
                                    pole 5 ft. long in mound of stone at this point;
I proceed to bottom of cliff to N. and set up in-
                                    strument on line due north of pole by trial test and direct rod S. 42°40' E. 11.30 chs. dist., from which point pole on top of cliff bears
                                     S. 30°03' W.
                             Sin 30°03' : sin 107°17 = 11.30 chs. : dist.
                             50076 : 95485 = 11.30 chs. : dist.
                                     from which
                             dist. = 21.54 chs.
                             63.51 + 21.54 = 85.05
                             I then measure south from
                             point of triangulation, a
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Chains 00.08

dist. of 5.05 chs., and at /
Set''. 7.7 S. Forest Reserve Boundary Post No. 62, 2
ft. in ground to rock and build mound of stone 3½ ft. base, 1½ ft. high, around same for corner of Tps. 31 and 32 S., Rs. 6 and 7 E., marked

S 31 in N. E. quadrant T 31 S

R 7 E S 6 in S. E. quadrant
T 32 S S 1 in S. W. quadrant
R 6 E S 36 in N. W. quadrant
Reserve in N. W. and S. W. quadrant, with 6
notches on N., S., E. and W. sides, from which
A pinion, 10 ins. diam., bears N. 22°45' E.,
34 lks. dist., marked T 31 S R 7 E S 31 BT

A pinion, 10 ins. diam., bears S. 13°45' E., 28 lks. dist., marked T 32 S R 7 E S 6 B T A pinion, 14 ins. diam., bears S. 84°15' W., 64 lks. dist., marked RES T 32 S R 6 E S 1 B T

A pinion, 10 ins. diam., bears N. 61°30' W., 75 lks. dist., marked RES T 31 S S 36 B T

Corner falls on talus of cliff 850 ft. below summit on east slope of foothill.

Land, rolling and precipitous.

Soil, rocky and sandy, 4th rate.

Timber, pinion and cedar. Cloudy 3 to 5.30 p.m., no work.

August 3, 1904.

GENERAL DESCRIPTION T. 32 S., R. 6 E.

T. 32 S., R. 6 E., is mountainous and rough. A cliff about 800 to 900 ft. high of red sandstone, with nearly vertical wall of 300 to 400 ft. comes in from south in sec. 32 and goes out on east in sec. 24, cutting off the southeast 1 of the township, which is composed of rolling foothills, flats and high buttes. The northeast } of township is flat and rolling plateau cut by deep canyons draining to northeast. The western portion rises to west forming foothills of Aquarius plateau and drains to southeast. Gulch and tributaries head in secs. 15, 16, 20 and 29 and form short canyons where they break down cliffs, and is stream of fresh water about 8 lks. wide, 2 ins. deep, and leaves township on south boundary of sec. 32. Timber is all small and very little grass except in plateau in northeast portion, which has some grass. Formation is red sandstone which washes into steep canyon. The foothills in southeast 1 is of hard pan and sandstone formation badly washed and nearly barren; contains many specimens of variagated colored petrified tree trunks, ranging from 6 ins. to 2 ft. in diameter.

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August 4:
               At corner of townships 31 and 32 S., Rs. 6 and 7 E., I set off 38°04' on latitude arc and 17°17½' N. on declination arc, and at 7<sup>h</sup>06<sup>m</sup> a.m., 1.m.t. determine meridian with solar. Magnetic declination arc.
Chains.
                   tion 15°42' E.
                Thence I run
               North between secs. 31 and 36, through timber
                   along east slope of foothill.
               Begin descent, bears N. W. and S. 20° E. Base of 90-foot descent at draw, 10 lks. wide,
     . 50
    3.20
                   course N. W.; begin ascent.
    5.20
                Top of 50-foot ascent, bears N. W. and S. E., be-
                   gin descent.
               Base of 50-foot descent at draw, 10 lks. wide, course N. W.; begin ascent bears N. W. and S. E. Top of 80-foot ascent, bears N. W. and S. E. Begin descent, bears N. W. and S. E. Base of 50-foot descent at draw, 10 lks. wide,
    7.10
  14.80
  16.00
  18.30
                   course N. W.; thence along west slope of side
               Draw, 10 lks. wide, course S. 70° W.; begin ascent bears N. 70° E. and S. 70° W.
  25.25
               Top of 30-foot ascent; begin descent, bears
N. 20° E. and S. 20° W.
Draw, 15 lks. wide, course N. 70° W., at base of
  27.00
  39.50
                   90-foot descent.
  40.00
               Set sandstone 24x14x6 ins., 18 ins. in ground,
                   for 1 sec. corner, marked 1 on W. face, from
                   which
                       A cedar, 10 ins. diam., bears N. 34°30' EL,
                           45 lks. dist., marked \frac{1}{4} S 31 B T
               A pinion, 10 ins. diam., bears N. 72°45' W., 129 lks. dist., marked RES 2 S 36 B T Corner falls on west slope of foothill.
  44.00
               Elbow of South Fork of Oak Creek, a dry stream, 25
                   lks. wide, banks 15 ft. deep, course N. 20° W.
                   from S. W.
               Draw, 5 lks. wide, course N. 80° W.
  47.20
               Draw, 5 lks. wide, course N. 80° W.
  50.50
  54.50
               Elbow of South Fork Oak Creek, course N. 20° W.,
                   from S. 30° W.
               Enter South Fork Oak Creek, course N. from S.20° W. Leave creek, course N. 30° W. from S.
  58.50
  62.80
               South Fork Oak Creek, 30 lks. wide, course N.60°E.
  67.50
               Same creck, course N. 60° W.
  72.50
               Same creek, course N. 60° E.
Set iron U. S. Forest Reserve Boundary Post No. 63
  76.00
  80.00
                   30 ins. in ground, and build mound of earth 31
                  ft. base, 1 ft. high, around same for corner of secs. 25, 30, 31 and 36, marked T 31 S S 30 in N. E. quadrant
                  R 7 E
                            S 31
                                      in S. E. quadrant
                  S 36 in S. W. quadrant R 6 E S 25 in N. W. quadrant
                  RESERVE in N. W. and S. W. quadrants, with 1 notch on S. and 5 on N. face, from which A cottonwood, 8 ins. diam., bears N. 30°30' E., 20 lks. dist., marked T 31 S R 7 E S 30
                          BT
                   A coftonwood, 10 ins. diam., bears S. 32° E., 3 lks. dist., marked T 31 S R 7 E S 31 B T A cottonwood, 8 ins. diam., bears S. 65°30' W.,
                           264 lks. dist., marked RES T 31 S
                           S 36 B T
                       A cedar, 12 ins. diam., bears N. 15°30! W., 77 lks. dist., marked RES T 31 S R 6 E
                           S 25 B T
               Land, hilly and rolling.
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Chains. Soil, rocky, hardpan and sandy, 4th and 3rd rates. Timber, pinion-pine, dedar and cottonwood. At this corner I set off 17°13'15" N. on declination arc and at 12h05m55s 1.m.t., observe sun on the meridian and obtain a reading of 38°05' on the latitude arc. From corner of secs. 25, 30, 31 and 36, I run North on true line, between secs. 25 and 30, over rolling bottom land, through cottonwood timber and sage brush.

Oak Creek, 30 lks. wide, 12-foot banks, stream
fresh water, 5 lks. wide, 3 ins. deep, course
S. 80° E. for 5.00 chs., then N. 60° E.

Draw, 10 lks. wide, course S. 80° E.; begin ascent,
bears N. 80° W. and S. 80° E. 2.65 11.50 22.00 Draw, 10 lks. wide, course S. E. To ascertain distance up cliff ahead and on account 28.67 of steep sloping rock on top of cliff, it being impossible to direct flag on line to a point near enough edge of cliff to be sure, I direct rod on top of cliff N. 0°48' W., and from instrument lay off base at foot of cliff N. 52°01' W. for 12.85 chs., from which point rod on top of cliff bears N. 60°57' E. Thence, Sin 61° 45': Sin 67°02'=12.85:dist. .88089:.92073=12.85:13.43 28.67+13.43=42.10 and rod is 17 lks. W. of true line. offset E. 17 lks. to true line. 39.25 At foot of vertical ledge and mark cross (+) and W C $\frac{1}{4}$ on W. side of same on sandstone ledge in place for witness corner to $\frac{1}{4}$ sec. corner, from whi ch A cedar, 8 ins. diam., bears S. 71°15' E., 33 lks. dist., marked W C $\frac{1}{4}$ S 30 B T A pinion, 6 ins. diam., bears N. 69°30' W.,
49 lks. dist., marked RES W C & S 25 B T
True point for & corner falls on nearly level vert-40.00 ical cliff, inaccessible.

Rod on top of vertical cliff, from which point
I measure 17 lks. E. to true line.

Top of precipitous ascent, bears N. W. and S. E.,
850 ft. above Oak Creek and 450 ft. above wit-42.10 47.20 ness & sec. corner. Begin precipitous descent, bears N. 60° W. and S. 60° E. 54.90 70.00 Base of 700-foot descent at draw, 10 lks. wide, course S. 80° E.; begin precipitous ascent.

True point for corner of secs. 19, 24, 25 and 30 falls on steep side of cliff at impractical 80.00 place for corner. I mark cross (+) on solid sandstone ledge, with 82.60 2 notches on S. and 4 on N. and W C alongside. (W + C), over which point I set iron U. S. Forest Reserve Boundary Post No. 64, in mound of stone, 6 ft. base, $3\frac{1}{8}$ ft. high, for witness corner to corner of secs. 19, 24, 25 and 30, 2.60 chs. N. of true point, marked

W C on top of cap T 31 S S 19 in N. E. quadrant R 7 E S 30 in S. E. quadrant

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Chains.
                     S 25 in S. W. quadrant
                     R 6 E S 24 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 2 notches
on S. and 4 on N. sides, from which
                           A pinion, 6 ins. diam., bears N. 57°45' E. lks. dist., marked W C T 31 S R 7 E S
                           A pinion, 5 ins. diam., bears S. 66°30' E., lks. dist., marked W C T 31 S R 7 E S
                                                                                                              S 30
                           A pinion, 6 ins. diam., bears N. 10°30' W.,100 lks. dist., marked RES W C T 31 S R 6 E
                               S 24 B T
                           No southwest tree available.
                Witness corner falls on point of sandstone rock,
                     projecting to south and 550 ft. above last draw.
                 Land, mountainous and precipitous.
                 Soil, rocky and sandy, 4th rate.
                 Timber, small pinion-pine and cedar.
                                                                                        August 4, 1904.
                August 5:
                                    At witness corner to corner of secs. 19,
                    24, 25 and 30, which is 2.60 chs. N. of true corner point, at 7^h05^m49^8 a.m., l.m.t., I set off 58^\circ06^\circ on latitude are and 17^\circ01^\circ30^\circ N. on de-
                     clination are and determine true meridian with the
                                  Magnotic declination 15°45' E.
                     solar.
                 Thence I run
                North on true line between secs. 19 and 24, ascend-
                     ing abruptly through timbor, counting measurement
                     from true corner point.
20.00
                Top of ascent, bears N. W. and S. 20° E., 200 ft.
                    above witness corner.
                Begin descent, bears N. 20° W. and S. 20° E.
Base of 50-foot descent, bears N. 20° W. and S. 20° E.
Head of draw, course S. 20° E.; begin ascent,
bears N. and S. 20° E.
23.00
32.00
33.00
               bears N. and S. 20° E.

Set sandstone 26x14x8 ins., 6 ins. in ground, to solid rock and build mound of stone, 5½ ft. base, 1½ ft. high, around same for ½ sec. corner, marked ¼ on W. face, from which

A pinion, 8 ins. diam., bears N. 8°45' E., 10 lks. dist., marked ¼ S 19 B T

A pinion, 10 ins. diam., bears S. 59°30' W., 22 lks. dist., marked RES ½ S 24 B T

Top of 100-foot ascent, bears N. 80° W. and S. 80°E.

Begin descent, bears N. 80° W. and S. 80°E.

At this point at 9h05m45s a.m., l.m.t., I set off 38°06'30" on the latitude are and 16°59'30" N. on the declination are and establish meridian with
40.00
44.00
                     the declination are and establish meridian with
                    solar for test sight on flag pole set between secs. 1 and 6 of T. 32 S., Rs. 6 and 7 E., and
                     find same bears due south.
                I set flag pole in mound of stone for line marking on summit and for test back sight from the north. Rocky draw, 10 lks. wide, course N. W. Rocky wash, course N. 80° W., at base of 400-foot descent, begin abrupt ascent.

Summit of 100-foot ascent on point of rock projections to west; begin proginitious descent, begin
46.12
55.00
61.00
62.40
                    jecting to west; begin precipitous descent, bears E. and W.
                Set pole, 6 ft. long in mound of stone for trian-
gulation point and proceed to base of cliff and
62.42
                    set instrument on line due north of pole by trial tests. From instrument I direct rod S. 85°22' E.
                     for 17.00 chs. dist., from which point pole on top of cliff bears S. 36°35' W., from which we
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Chaing.

derive the following proportion: Sin 36°35' : sin 58°03' = 17.00 chs.dist. .59599 : 84851 = 17.00 chs. : 24.20 chs.

62.42 + 24.20 = 86.62Thence I measure south 6.62 chs. to



80.00

True point for corner of secs. 13, 18, 19 and 24 falls between two large boulders at impractical point to set corner.

80.38

I set iron U. S. Forest Reserve Boundary Post No. 65, 2 ft. in ground to rock, and build round of stone, $3\frac{1}{2}$ ft. base, $1\frac{1}{3}$ ft. high, around same for witness corner to corner of secs. 13, 18, 19 and 24, marked W C on top of cap;

T 31 S S 18 in N. E. quadrant, R 7 E S 19 in S. E. quadrant,

S 24 in S. W. quadrant, R 6 E S 13 in N. W. quadrant,

RESERVE in N.W. and S.W. quadrants, with 3 notches on N. and S. faces, from which

A pinion, 10 ins. diam., bears N. 32°15' E., 20 lks. dist., marked W C T 31 S R 7 E S 18 B T

A pinion, 14 ins diam., bears S. 48° E., 94 lks. dist., marked W C T 31 S R 7 E S 19

A pinion, 12 ins. diam., bears S. 10° W., 1ks. dist., marked RES W C T 31 S R 6 E S 24 B T

A cedar, 10 ins diam., bears N. 20°30' W., 36 lks. dist., marked RES W C T 31 S R 6 E S 13 B T

Corner falls on N. slope of talus of cliff 780 ft. below summit.

Land, mountainous and precipitous. Soil, rocky and sandy, 4th rate. Timber, small pinion-pine and cedar.

At the triangulation point on line 6.62 chs. N. of this corner, at $5h05^{m}49^{s}$ p.m., l.m.t., I set off $38^{\circ}07'$ on latitude arc and $16^{\circ}54'45''$ N. on declination are and establish meridian with solar and mark line thus determined by flag pole in top of cliff to the south.

In order to test line and instrument by Polaris observation I proceed as follows: With instrument in same position, I observe Polaris in accordance with Manual of Instructions at 8hlom p.m., 1.m.t. and mark line thus determined by tack in hub 6.00 chs. N. of my station.

U. C. Polaris Aug. 1, 16h42.8m Reduction to Aug. 5, 15.7 16h27^m U. C. Aug. 5, Time of observation Aug. 5, 8 10 Time-argument and hour angle = 8ⁿ17^m Gives azimuth of Polaris, 1°144' E.

August 6: At 6040 a.m., I direct instrument to hub set last night and turn off the azimuth of Polaris 1°141 to the west and reverse telescope and find flag on top of cliff to the south bears due south. At 7h05m43s a.m., l.m.t., I set off 38°07' on lati-tude arc and 16°45' N. on the declination arc, and

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find by directing telescope to flag pole to the
Chains.
                     south that a.m. and p.m. observations agree with
                    meridian established by polaris observation.
                August 6: From true point for corner of secs. 13,
                     18, 19 and 24, which is 38 lks. south of W. C..
                    I run
                North on true line, between secs. 13 and 18, through
                    timber, descending over rocky broken land. Magnetic declination 15°55'.
                Dry branch, 20 lks. wide, 10 ft. banks, course E. (small stream of water in branch 10 chs. W. of
  6.60
                line, but sinks), base of descent 150 ft. below sec. corner begin abrupt ascent, bears E. and W. Top of 250-foot ascent on top of vertical ledge, bears N. 60° E. and S. 60° W.
12.65
14.00
                Top of ridge at east end, bears N. 30° W., 280 ft.
                    above branch.
15.30
                Begin abrupt descent over 50-foot vertical ledge.
               bears N. 30° W. and S. 30° E.

Base of 180-foot descent on east slope of hill at wash 5 lks. wide, course S. 80° E.; thence ascending along steep east slope.

Top of 100-foot ascent on bare hardpan ridge, bears N. 50° E. and S. 30° W.; thence over badly washed hardpan surface, cut up by innumerable small washess.
21.00
31.00
               Draw, 15 lks. wide, course S. W.
Draw, 20 lks. wide, course S. 20° E.; thence gradually ascending over broken and washed surface, bears
36.50
39.50
                    E. and ".
                Set sandstone 24x8x6 ins., 18 ins. in ground for a sec. corner, marked a on W. face, from which
40.00
               A pinion, 10 ins. diam., bears S. 32°30' E.,
85 lks. dist., marked & S 18 B T
A pinion, 10 ins. diam., bears N. 83°30' W., 11
lks. dist., marked RES & S 13 B T

Draw, 20 lks. wide, course S. W.
Horse Trail, bears N. 20° W. and S. 20° E.
Draw, 5 lks. wide, course S. E.

Draw, 10 lks. wide, course S. E.
Elbow of draw 20 lks. wide, course S. E.
42.40
47.15
47.25
50.90
               Elbow of draw, 20 lks. wide, course S. 20° E. from N. 20° E., 30 ft. deep.
Same draw, course S. 20° E.
61.70
65.00
               Elbow of same draw, course S. W. from N. W. Draw, 10 lks. wide, 30 ft. doep, course S. W. Draw, 10 lks. wide, 30 ft. deep, course B. W. Draw, 10 lks. wide, 30 ft. deep, course S. W.
68.00
70.70
75.00
78.00
               Set iron U. S. Forest Reserve Boundary Post No. 66,
2 ft. in ground and build mound of stone, 3 ft.
80.00
                    base, la ft. high, around same for corner of secs.
                   7, 12, 13 and 18, marked
T 31 S S 7 in N. E. quadrant
R 7 E S 18 in S. E. quadrant
S 13 in S. W. quadrant
R 6 E S 12 in N. W. quadrant
                   RESERVE in N. W. and S. W. quadrants, with 2
                   notches on N. and 4 on S. sides, from which A pinion, 6 ins. diam., bears N. 26°30' E., lks. dist., marked T 31 S R 7 E S 7 B T
                         A cedar, 8 ins. diam., bears S. 52°45' W., 125
                              lks. dist., marked RES T 31 S R 6 E S 13
                         A pinion, 8 ins diam., bears N. 29°45' W., 135 lks. dist., marked RES T 31 S R 6 E S 12
                         No trees available in southeast quadrant.
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Vorner falls on northwest slope of small hardpan ridge, 200 ft. above draw. Draw at 39.50.
 Chains.
                  Land, precipitous and broken. Soil, bare washed hardpan and rocky, 4th rate.
                  Timber, very scattering small pinion-pine and cedar
                 At this corner I set off 16°41' N. on the declination arc and at 12h05m43s 1.m.t., observe sun on meridian and obtain a reading of 38°08' on lati-
                      tude arc.
                 From corner of secs. 7, 12, 13 and 18, I run
                 North on true line between secs. 7 and 12 over
                      hilly broken surface of hardpan and sand rock, cut
                     up by small washes, through scattering timber. Magnetic declination 16°00' E.
   2.50
                  Draw, 10 lks. wide, 20 ft. deep,
                                                                                       course S. W.
                 Draw, 10 lks. wide, 20 ft. deep, course S. W. Draw, 10 lks. wide, 30 ft. deep, course S. W. Draw, 10 lks. wide, 20 ft. deep, course S. W. Draw, 10 lks. wide, 20 ft. deep, course S. W.;
 12.00
 18.20
 23.00
 28.30
                      timber becomes thicker.
                 Draw, 8 lks. wide, course S. W.
32.50
                 Draw, 10 lks. wide, course S. W. Draw, 10 lks. wide, 20 ft. deep, course S. W. Set red sandstone 26x12x6 ins., 18 ins. in ground,
35.60
38.60
                Set red sandstone 26x12x6 ins., 18 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on $W$. face, from which A pinion, 10 ins. diam., bears $S$. 51°30' E., 21 lks. dist., marked $\frac{1}{4}$ $ $7 B T A pinion, 12 ins. diam., bears $S$. 18° $W$., 17 lks. dist., marked $RES$ $\frac{1}{4}$ $ $ $12 B T Draw, 10 lks. wide, 10 ft. deep, course $S$. $W$. Draw, 10 lks. wide, 10 ft. deep, course $S$. $W$. Draw, 10 lks. wide, 10 ft. deep, course $S$. $W$. Top of ascent, 400 ft. above sec. corner, on divide in saddle, bears $N$. 60° $W$. and $S$. $E$. Begin descent, bears $N$. 60° $W$. and $S$. $E$. Draw, 10 lks. wide, course $N$. 60° $E$.; at base of 80-foot descent; begin ascent.

Set iron $U$. $S$. Forest Reserve Boundary Post $N$0. 67, 30 ins. in ground, and build mound of stone, $3\frac{1}{2}$
40.00
50.50
57.60
62.90
68.00
68.50
76.10
79.90
                     30 ins. in ground, and build mound of stone, 32 ft. base, 12 ft. high, around same for witness
                     corner to corner of secs. 1, 6, 7 and 12, marked
                     W C on top of cap
                    T 31 S S 6 in N. E. quadrant
R 7 E S 7 in S. E. quadrant
S 12 in S. W. quadrant
E 6 E S 1 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants, with 1
                     notch on N. and 5 notches on south sides, from
                     which
                           A pinion, 12 ins. diam., bears N. 45° E., lkg. dist., marked W C T 31 S R 7 E
                                                                               bears S. 12°15' E., 84
                           A pinion, 14 ins. diam.,
lks. dist., marked W C
                                                                                  T 31 S
                                                                                                   R 7 E
                                                                                                   30°15' W.,
                          A pinion, 16 ins. diam., bears S.
                               146 lks. dist., marked RES W C R 6 E S 12 B T
                                                                                                    T 31 S
                           A pinion, 10 ins. diam., bears N. 75°15' W.
                               185 lks. dist., marked RES W C E S 1 B T
                                                                                                   T 31 S
                True point for corner of secs. 1, 6, 7 and 12 falls on sandstone boulder, impractical place for post.
80.00
                 Land, mountainous and broken.
                 Soil, hardpan and sand rock, 4th rate.
                 Timber, pinion-pine.
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August 6, 1904.

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August 8:
                At corner of secs. 1, 6, 7 and 12, T. 31 S.,
Rs. 6 and 7 E., at 7 05 30 a.m., 1.m.t., I set
off 37 08 30" on latitude arc and 16 12' R. on
Chains.
                    the declination arc, and establish meridian with
                    solar.
                                Magnetic declination 16°05' E.
                Thence I run
                North on true line between secs. 1 and 6, through timber ascending. Magnetic declination 16°10'. Top of 30-foot ledge, bears K. 20° E. and S. W. Begin descent, bears E. and W.
    1.10
    4.00
    7.80
                Draw, 5 lks. wide, course N. 70° E., at base of 40-foot descent; thence over rolling and broken
                   surface.
  31.00
                Draw, 10 lks. wide, course N. 70° E.
Set sandstone 24x14x6 ins., 18 ins. in the ground for 4 sec. corner, marked 4 on W. face, from
  40.00
                   which
                        A pinion, 10 ins. diam., bears S. 85°30' E., 73 lks. dist., marked & S 6 B T A pinion, 10 ins. diam., bears N. 82°30' V.,
               46 lks. dist., marked RES & S 1 B T

Draw, 10 lks. wide, course N. 70° E.; begin ascent.

Top of 80-foot ascent, bears E. and W.

At this point at 9h05m30s a.m., I set off 37°09' on the latitude arc and 16°09'30" N. on the declination.
  69.80
  79.00
                   tion are and establish meridian with solar and
                   backsight on flag pole set in mound of stone at
                   46.12 chs. between secs. 19 and 24, and find same
                   bears due south.
  83.00
                Draw, 10 lks. wide, course N. 70° E.
                Begin descent, bears N. 60° E. and S. 60° W. Draw, 15 lks. wide, course N. 60° E., at base of 150-foot descent, begin ascent.
  97.00
102.00
107.00
                Top of 100-foot ascent, on east side of cliff,
                   begin descent, bears E. and W.
112.80
                Draw, 15 lks. wide, course E., at base of 100-foot
                   descent; begin ascent.
                Top of 100-foot ascent, bears N. 80° E. and W. Intersect 6th Standard Parallel South 31.36 chs.
115.00
115.25
                   S. 89°02' E. of standard corner to secs. 31 and 52, T. 30 S., R. 7 E., and 8.90 chs. N. 89°02' W. of 4 S. C. on south boundary of sec. 32, at
                   which point
               I set iron U. S. Forest Reserve Boundary post No.
                   68, 18 ins. in ground to rock and build mound of
                  stone, 5 ft. base, 2 ft. high, around same, for C. C. of T. 31 S., Rs. 6 and 7 E., marked C C on top of cap on south side of center
                   T 31 S on south beveled edge
                  R 7 E S 6 in S. E. quadrant R 6 E S 1 in S. W. quadrant
                  RESERVE in S. W. quadrant on top of cap, with 6 notches on S., E. and W. faces, from which A pinion, 12 ins. diam., bears S. 52° E.,
                                                                                  R 7 E
                           lks. dist., marked C C
                                                                   T 31 S
                       A pinion, 10 ins. diam., bears S. 30°30' 7., 75
                            lks. dist., marked RES
                                                                   CC T31 S R6E
                           SIBT
               Land, hilly and broken.
               Soil, hardpan and sandy rocky, 4th rate.
               Timber, small pinion-pine and cedar.
               Too cloudy for noon observation.

Note: This line should close theoretically 16.98
chs. V. of S. C. T. 30 S., Rs. 6 and 7 E. There
                  is therefore some large error in the old survey
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to the northwest.

chains.

General Description, T. 31 S., R. 6 E.

- T. 31 S., R. 6 E., is composed of rough, mountainous, rocky and precipitous lands; and in portions, of hilly, rolling and lovel benches and The northeast and north central portion is traversed by Pleasant Creek, a bold fresh water stream about 20 lks. wide and 12 inches deep. Along this stream and to the south of it are open flats and benches, which could be made The township drains to the east and fertile. northeast. The southern portion is traversed by Oak Creek, a stream of fresh water, 5 lks. wide, 2 ins. deep, flowing in an easterly direction. Bottom lands along this stream are narrow and lie between steep canyons walls 800 feet high. The western portion of township contains foothills of Aquarius Plateau and has some · merchantable timber. Formation is of sandstone in southeast; sandstone substrata in west, with lava or trachyte top strata, and changes to limestone in northeast, with trachyte caps on hills.
- I install J. J. Elliot and A. B. McAntire as extra chainmen on Sixth Standard Parallel South and have them rechain same after line is run through, with them as moundman and rodman.

SIXTH STANDARD PARALLEL SOUTH, R. 7 E.

Prior to setting C C of T. 31 S., Rs. 6 and 7 E., previously described, I retrace the Sixth Standard Parallel South, beginning at S C of secs. 31 and 32, T. 30 S., R. 7 E., which is a sandstone (instead of quartzite as called for) 12x4x5 ins. above ground and witnessed by a pin-ion-pine 5 inches in diam. N. 12°45' E., 14 lks. dist., (instead of a pine 5 ins. diam., N. 10° E. 14 lks. dist., as called for by notes), marked S C T 30 S R 7 E S 32 B T I also take for witness tree

A pinion, 6 ins. diam., bears N. 45°15' W., 34 lks. dist., marked S C T 30.S R 7 E S 31 B T

There is also a pinion improperly marked in . S. W. quadrant.

Thence from this corner I run East on random retracement line, along south boundary of sec. 32,40.22 by 1st chainman, 40.30 by second set, the mean of which is 1 S C bears S. 68 lks.

Thence from 4 sec. corner I run
N. 89°02' W. on true retracement line on west
half of south boundary of sec. 32, through tim-

ber, ascending.
Top of ascent, 100 ft. above \(\frac{1}{4} \) sec. corner, bears
N. E. and S. 60° \(\text{W}. \)

Intersection with range line between Rs. 6 and 7 E., through T. 31 S., set temporary corner.

Begin descent, bears N. and S. Draw, 10 lks. wide, course N. 60° E., base of 100-

foot descent.

of secs. 31 and 32, T. 30 S., R. 7 E. Land, hilly and broken.

Soil, sandy and rocky, 4th rate.

Timber, pinion and cedar. No work between 1 and 3 p.m. on account of cloudy weather. August 8,1904

40.26

7.00

8.90

26.70 37.70

40.26

Sixth Standard Parallel South, R. 7 E.

```
Chains.
                From S. C. of secs. 31 and 32, T. 30 S., R. 7 E.,
                West on random retracement line along south boundary of sec. 31, at 40.00 by 1st set chainmen, 39.86 by 2nd set, the mean of which is
   39.93
                4 S. C. on south boundary of sec. 31, bears N. 37
                    lks. dist.
                This corner is shale sandstone 22x3x26 ins. above
                   ground, marked \frac{1}{4} S C on N. face, as called for in notes of General Land Office, and witnessed by mound of stone 8 lks. northeast of corner. I build mound of stone 3 ft. base, 1\frac{1}{2} ft. high,
                   around corner to secure its position, mark and
                   witness trees as follows:
                A pinion, 10 ins. diam., bears N. 61°15' E.,
64 lks. dist., marked S C ½ S 31 B T
A pinion, 6 ins. diam., bears N. 48°15' W., 32
lks. dist., marked S C ½ S 31 B T
(There is an old bearing tree southwest of corner
improperly marked, though not called for in notes
                   of General Land Office).
                Thence from this 1/4 S. C. I run
                S. 89°28' E. on true retracement line, along east
               half of south boundary of sec. 31.

Draw, 10 lks. wide, course N. 80° W.

Top of ascent 50 ft. above 4 S. C., on ridge bears
   5.50
  11.50
                   N. and S.
  12.00
                Begin descent, bears N. and S.
                Base of 200-foot descent at draw, 10 lks. wide, course N. 60° E.; begin ascent.
  28.50
                Top of 50-foot ascent, bears N. 80° E. and S.80° W.; begin descent, bears N. 80° W. and S. 80° E.
  32.00
  39.93
                S. C. of secs. 31 and 32.
                Thence from \frac{1}{4} S. C. on south boundary sec. 31
                   run
                West on random retracement line along W. half of
                   south boundary of sec. 31, at 40.97 by 1st set of chainmen,
               40.90 by 2nd set, the mean of which is S. C. of T. 30 S., Rs. 6 and 7 E. bears N. 46 lks. dist. K which is a cross (36 S C 31) on limestone conglomerate rock (instead of quartzite) and
  40.94
                   witnessed by
                        A pine, 4 ins. diam., which bears N. 7°30' W.,
                            31 lks. dist., instead of N. 10° W.
                            31 lks. dist., as reported in notes of Gen-
                            eral Land Office.
                                                          I also mark for witness
                           tree
                        A pinion pine, 10 ins. diam., which bears
                           N. 16°30' E., 65 lks. dist.,
S C T 30 S R 7 E S 31 B T
                                                                           , and mark
                       (There is also an improperly marked juniper
                           tree in the southwest quadrant for B.T., but same is not called for in notes).
                Thence from the S. C. above described I run
                S. 89°21' E. on true retracement line along W. half
               of south boundary of sec. 31, over rock surface, through scattering timber, gradually ascending. Rocky draw, 5 lks. wide, 15 ft. deep, course S. 30° W.
    2.00
    5.00
                Rocky wash, 5 lks. wide, course S. 30° V.
               Draw, 5 lks. wide, course S. 30° W.
Draw, 5 lks. wide, course S. 30° W.
Draw, 10 lks. wide, course S. W.; begin abrupt ascent, bears N. E. and S. W.
Top of ascent, 250 ft. above section corner, bears
  11.00
  14.50
  20.00
  30.00
                   W. 20° E. and S. 20° W., near south end of rock
```

1

```
Chains!
                 spur.
              Bogin descent, bears N. E. and S. 7.
Draw, 10 lks. wide, course S. 70° W., at base of
50-foot descent; begin ascent, bears N. 70° E.
30.30
32.15
                 and S. 70° W.
40.94
              At the 1/2 section corner on south boundary sec. 31.
              At this corner I set off 15°50' N. on declination
                 arc and at 12h05m21s 1.m.t., observe sun on meridian and obtain reading of 38°09'30" on
                 latitude arc.
             No work in p.m. on account of cloudy weather and
                 rain.
              Land, mountainous and broken.
              Soil, rocky limestone, bare rock and sandy, 4th
                 rate.
              Timber, pinion-pine and cedar.
                                                                          August 9, 1904.
             SIXTH STANDARD PARALLEL SOUTH, through R.6 E. August 10: At S. C. of T. 30 S., Rs. 6 and 7 E., previously described, at 7h05m15s a.m., 1.m.t., I set off 38°09'30" on latitude arc and 15°37' on
                 declination are and establish meridian with solar!
                 Magnetic declination 16°12' E.
             Thence I run
             West on random retracement line along south boun-
                dary of sec. 36, through scattering timber over nearly bare limestone rock surface.

38.90 by 1st set of chainmen,

38.96 by 2nd set, the mean of which is

ne \( \frac{1}{4} \) S. C.

on south boundary sec. 36, b
38.93
             The \frac{1}{4}
                                                on south boundary sec. 36, bears
                 N. 46 lks. dist., which is a sandstone (instead
                 of quartzite) marked and witnessed as described,
                      A pine, 6 ins. diam., which bears N. 84° E., 20 lks. dist., marked S C ½ S B T I also mark for a witness tree
                      A pinion pine, 8 ins. diam., which bears N.54°30' W., 34 lks. dist., marked S C & S 36
             Thence from this \frac{1}{4} sec. corner 1 run
             S. 89°20' E. on true retracement line along east
                 half of south boundary sec. 36, descending ab-
                 ruptly.
             Base 60 ft. descent, bears N. 70° E. and S. 70° W. Sulphur Creek (dry) 30 lks. wide, course N. 70° E.; road, Teasdale and Boulder, in bed of stream. Top of north point of rock, 40 ft. high, between
 2.70
3.10
 4.50
                 Sulphur Wash and Pleasant Creek.
             Same road, bears N. and S.
Pleasant Creek, 30 lks. wide, stream of fresh water
10 lks. wide, 12 ins. deep, course N. 30° E. for
5.00 chs., then more to east; begin ascent up
bare rocky mountain.
Top of 200-foot ascent on ridge, bears N. 30° W.
 8.50
 9.70
15.40
              and S. 30° E.; begin descent.
Draw, 15 lks. wide, course N. 30° W., base of 120
19.50
                 ft. descent; begin ascent.
              Draw; 8 lks. wide, course S. W.
24.70
              Top of 250-foot abrupt ascent, bears N. and S. Set iron U. S. Forest Reserve Boundary Post No. 69
32.40
38.88
                 on solid rock and build mound of stone, 6 ft. base, 3\frac{1}{8} ft. high, around same, marked W C S C on top of cap
                              R 7 E S 31 in N. E. quadrant R 6 E S 36 in N. W. quadrant
                              R 7 E
                 T 30 S
                 T 30 S
                 RESERVE in S. W. and S. E. quadrants, with 6
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notches on N., E. and W. sides, for witness corner to corner of T. 30 S., Rs. 6 and 7 E., and for reserve boundary marking.

At S. C. of T. 30 S., Rs. 6 and 7 E.
Chains:
38.93
            From & S. C. on south boundary of sec. 36 I run
            West on random retracement line along W. half of
                south boundary of sec. 36, ascending.
             40.14 by 1st set of chainmen
40.18 by 2nd set, the mean of which is
5. C. of secs. 35 and 36, bears N. 10 1ks. dist.,
which corner is a trachyte stone 10x8x6 ins.
40.16
                above ground, marked as described and witnessed
                    A pine (norway) 18 ins. diam., which bears N. 6° W., 274 lks. (instead of N. 60° W.,
            Also mark as additional witness tree
A pinion pine, 10 ins. diam., which bears
N. 14° E., 254 lks. dist., marked S C T 30 S
R. 6 E., S 36 B T
                   (There is also a B. T. improperly marked S. E.
                        of S. C. and not called for by notes.
            Thence from S. C. of secs. 35 and 36 I run
            S. 89°51' E. on true retracement line along W. half of south boundary sec. 36, over open bottom land. Sulphur Creek (dry) 30 lks. wide, course S. 60° E. Begin ascent and enter scattering timber, bears N. W. and S. 60° E.
10.00
11.50
            Rocky wash, 10 lks. wide, course S. 10° W.
16.50
21.00
            Top of ascent, 120 ft. above creek on south slope
            of red ridge; thence along south slope of hill. Rocky wash, 10 lks. wide, course S. Rocky wash, 5 lks. wide, course S.
25.70
31.80
            Begin abrupt descent, bears N. 60° E. and S. 60° W. At the 4 S. C. on south boundary sec. 36, which is
37.70
40.16
               100 ft. below last summit.
            Land, mountainous and broken.
            Soil, rocky and sandy, 4th rate.
            Timber, pinion and cedar, with scattering yellow
                pine along Pleasant Creek and sulphur wash.
            Formation, limestone and sandstone, forming in places a natural cement.
            No work in p.m. on account of rain.
                                                                   August 10, 1904.
            August 11: At standard corner of secs. 35 and 36,
               proviously described, at 7h05m15s a.m., l.m.t., I set off 38°09'30" on latitude are and 15°19'30"
               N. on declination arc, and establish meridian with solar. Magnetic declination 16°15' E.
            Thence I run
            West on random retracement line over open bottom
                land, at
                    39.35 by 1st set of chainmen
                    39.29 by 2nd set, the mean of which is
            The 4 S. C. bears N. 40 lks. dist., and is mark on trachyte boulder as called for in notes of Gen-
39.32
               oral Land Office, and is witnessed by A pine, which bears S. 86°30' E. instead of
            N. 89° E., as called for in notes. This tree being south of line I take the following
               bearing trees:
                    A pinion, 6 ins diam., which bears N. 39° E., 99 lks dist., marked S. C 4 S 35 B T
                    A pine, 10 ins. diam., bears N. 2°15' W., 51
                       lks. dist., marked S C 1 S 35 B T
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16

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Thence from the 1 S. C. I run
S. 89°25' E. on true retracement line along E. half
Chains.
                of south boundary of sec. 35, through timber,
                descending.
  4.80
             Draw, 8 lks. wide, course N. 60° E.
             Draw, 6 lks. wide, course N. 20° E., base of 100-
foot descent, bears N. 20° E. and S. 20° W.
10.80
             Draw, 6 lks. wide, course N., begin ascent. Top of 60-foot ascent, bears N. and S. Begin descent, bears N.Wand S.
14.05
17.30
19.30
                       Old blazed line runs south of true line and
             Note:
                bends at this point back to north.
                                                                         There is no
                change in needle line, as reported in notes of
             General Land Office.
Draw, 10 lks wide, course N. 20° E., base of 60-
24.80
                foot descent; begin ascent.
             Top of 50-foot ascent, bears N. 80° E. and S. W.; begin descent, bears N. 80° W. and S. E. Base of 60-foot descent, bears N. 70° W. and S.70° E.
28.30
35.00
                Enter open bottom land.
             3 lks. W. of this corner I set iron U. S. Forest
Reserve Boundary Post No. 70, 30 ins. in ground
and build mound of stone, 3 ft. base, 1 ft. high,
around same for witness corner to S. corner of
39.29
                secs. 35 and 36, marked
                WC SC on top of cap
               T 30 S S 36 in N. E. quadrant
R 6 E S 35 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants on top of
                cap, with 1 notch on E. and 5 on W. sides.
39.32
            At standard corner of secs. 35 and 36.
            From the & S.C. on south boundary of sec. 35, pre-
                viously described I run
            West on random retracement line along west half of
            south boundary of sec. 35, at
39.92 by 1st set of chainmen
39.84 by 2nd set, the mean of which is
The standard corner of secs. 34 and 35 bears N. 69
1ks. dist., which is a sandstone 17x5x30 ins.
above ground, set in mound of stone, marked as described in notes of General Land Office, and is
39.88
                witnessed by
                    A pinion mine, 12 ins. diam., which bears
                       N. 66°30' E., 17 lks. dist., and is marked S C T 30 S R 6 E S 35 B T, which is not called forin General Land Office notes.
            I mark in addition for witness tree:
A pinion, 14 ins. diam., which bears N. 62°30'W.
121 lks. dist., marked S C T 30 S R 6 E
                        S 34 B T
            Thence from south corner of secs. 34 and 35 I run S. 69°01' E. on true retracement line along south
               boundary of sec. 35, through timber.
            Begin abrupt descent bears N. 80° W. and S. E. at
30.00
               north end of ridge.
            Draw, 5 lks. wide, course N. 60° E., base of 400
39.70
                foot descent.
39.88
            The $ S. C. on south boundary sec. 35.
            Land, mountainous and broken.
            Soil, sandy and rocky, 4th rate.
            Timber, small pinion and cedar; some scattering
            pine along sulphur crock to the N. Too cloudy for noon observation and rain provents
               work in p.m.
                                                                    August 11, 1904.
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Sixth Standard Parallel S., R. 6 E.

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Chains.
                   August 12:
                    At standard corner of secs. 34 and 35 previously
                         described at 7^{h}05^{m} a.m., l.m.t., I set off 38°09'30" on latitude arc and 15°02' N. on the
                         declination arc and establish a meridian with the
                    solar. Magnetic declination 16°15' E. Thence I run
                    West on random retracement line along south boun-
                         dary of sec. 34, through scattering timber over broken rocky surface, at
40.09 by 1st set of chainmen
                                 40.04 by 2nd set of chainmen, the mean of
                                     which is
                    The \(\frac{1}{4}\) S. C. on south boundary of sec. 34 bears

N. 40 lks. dist.,

This \(\frac{1}{4}\) S. C. is a sandstone as described by the General Land Office, but being nearly disintegrated I replace same in exact spot by a sandstone of the following section of the same of the
40.06
                         stone 24x14x8 ins., 18 ins. in ground for \frac{1}{4} S.C. marked \frac{1}{4} S C on N. face, from which old bearing
                   tree called for in notes, which is

A pinion-pine 14 ins. diam., bears N. 0°45' E.

44 lks. dist., (istead of pine 4 ins. N.2°E.

42 lks. as called for).

I mark additional witness tree:
                                A pinion, 6 ins. diam., which bears N. 65°30' W.,
                                      60 lks. dist., and mark same S C 1/4 S 34 B T
                    Thence from 1 S C I run
                    S. 89°26' E. on true retracement line along east
                         half of south boundary sec. 34, ascending north
                         and south over rocky broken surface, through
                         timber.
                    Top of ascent, bears N. and S., 100 ft. above $\frac{1}{2}$ S.C. Draw, 10 lks. wide, 20 ft. rock walls, course S.20°
  7.50
11.00
20.00
                    Head of small draw, course S. 20° W.
                    Draw, 10 lks wide, course S. 20° W., heads 3.00
26.80
                          chs. N.
                    Set iron U. S. Forest Reserve Boundary Post No. 71, 1 ft. in ground to solid rock and build mound of stone, 5 ft. base, 2½ ft. high; around same for witness corner to S. C. of secs. 34 and 35,
40.01
                         marked
                         W C S C on top of cap
                         T 30 S S 35 in N. E. quadrant
                         R 6 E S 34 in N. W. quadrant RESERVE in S. E. and S. W. quadrants, with 2
                         notches on E. and 4 on W. faces.
40.06
                    At S. C. of secs. 34 and 35.
                    From the \frac{1}{4} S. C. on south boundary of sec. 34
                         above described I run
                    West on random retracement line along W. half of
                          south boundary sec. 34, at
                                 39.90 by 1st set of chainmen 39.98 by 2nd set of chainmen, the mean of which
                    The S. C. of secs. 33 and 34 bears N. 53 lks. dist.
39.94
                    This corner is a sandstone 12x3x10 ins. above
                         ground, marked as described in notes of General Land Office and witnessed by a
                                 Pinion 6 ins. diam., which bears N. 74°15' W.
                                      18 lks. dist., marked S C T 30 S R 6 E
                                      S 33 BT, instead of pine 5 ins diam.,
                    N. 85° W., 18 lks., as called for in notes. I also mark an additional witness tree:
                                 A pinion, 12 ins. diam., which bears N.68° E.
                                      71 lks. dist., marked S C T 30 S R 6 E
                                    S 34 B T
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Chains

19.40 22.00

26.00

27.00

30.00 38.40 59.94 3 lks. W. of S. C. of secs. 33 and 34 I set iron U. S. Forest Reserve Boundary Post No. 72, 24 ins. in ground and build mound of stone, $3\frac{1}{8}$ ft. base, $1\frac{1}{3}$ ft. high, around same for W. C. to S. C. of secs. 33 and 34, marked W C S C on top of cap

T. 30 S S 34 in N. E. quadrant
R 6 E S 33 in N. W. quadrant
RESERVE in N. W., S. W. and S. E. quadrants, with
3 notches on E. and W. sides.
Thence from the S. C. of secs. 33 and 34 I run
S. 89°15' E. on true retracement line along W. half
of south boundary of sec. 34, over broken surface,

through timber.

Draw, 10 lks. wide, course S. 30° W. Begin descent, bears N. 20° W. and S. 20° E. Base of 140-foot absupt descent, bears N. 20° W. and S. 20° E.

Dry branch, 20 lks. wide, 8 ft. banks, course S. 20

Begin ascent, boars N. 20° W. and S. 20° E. Draw, 10 lks. wide, course S. 20° W. At & S. C. on south boundary of sec. 34, 80 feet

above branch.

At the S. C. of secs. 33 and 34, I set off 14°57' N. on declination arc and at 12h04m54s 1.m.t., observe sun on meridian and obtain a reading of 38°09'30" on latitude arc.

Note: J. J. Elliot and Arthur B. McAntire resume regular duties as moundman and rodman.

GENERAL DESCRIPTION OF T. 31 S., R. 6 E.

Is rough mountainous land, the western portion forming the east slope of Aquarius Plateau. northern portion is drained by Pleasant Creek, a bold fresh stream about 10 lks. wide and 1 ft. deep, leaving township on north boundary of sec. 2. The central portion is drained by small creek running due east and leaving township on east boundary of sec. 13. The southern portion is drained by Oak Creek, leaving township on east boundary of sec. 25. The last two creeks mentioned have canyon walls, while Pleasant Creck has some bottom lands and benches along slopes that are susceptible of cultivation. Timber is mainly inferior pinion-pine and cedar, some yellow timber suitable for lumber along Pleasant Creek and adjacent benches and in western portion of township.

> Muchal T. 30 S., R. 6 E.

From S. C. of secs. 33 and 34 on Sixth Standard Parallel South, I run
N. 0°02' W. on true line between secs. 33 and 34.

Magnetic declination 16°00'., through timber over broken rocky surface.

Draw, 10 lks. wide, course S. 80° E.

Begin descent, abruptly, bears N. 80° W. and s. 80° E.

Base of 150-foot descent at draw, 15 lks. wide, course S. 80° E.; begin abrupt ascent. Top of 200-foot precipitous ascent, bears E. and W.

continue gradual ascent.

5.10

10.00

18.00

28.00

```
Chains.
                Set trachyte boulder 28x14x12 ins., 15 ins. in
40.00
                     ground and build mound of stone around same, 3
ft. base, 1 ft. high, for 1/4 sec. corner, marked
1/4 on W. face, from which
A pinion, 5 ins. diam., bears N. 29°30' E.,
60 lks. dist., marked 1/4 S 34 B T
                A pinion, 14 ins. diam., bears N. 80°15' W., 72 lks. dist., marked RES 1/4 S 33 B T Top of ridge 300 ft. above draw, bears E. and W.
46.00
46.50
                 Begin descent, bears E. and W.
                Side hill wash, 5 lks. wide, course N. 10° W. Wash, 5 lks. wide, course N. 20° E. Brushy draw, 10 lks. wide, 10 foot banks, course N. 80° E. Base of 380 ft. descent, bears N. 80° E. and S. 80° W. Leave timber, thence
59.50
62.00
63.85
                     across open flat.
                 South Fork of Sulphur Creek, 40 lks. wide, 30 ft. banks (dry), course S. 80° E.
68.00
                Leave flat, enter timber, and begin ascent, bears N. 80° E. and W.
72.50
78:00
                 Top of 80-foot ascent on trachyte ridge, bears
                     N. 80° E. and W.
80.00
                 Set iron U. S. Forest Reserve Boundary Post No. 73,
                    30 ins. in ground and build mound of stone 4 ft. base, 11/2 ft. high around same for corner of secs. 27, 28 33 and 34, marked T 30 S S 27 in N. E. quadrant R 6 E S 34 in S. E. quadrant S 33 in S. W. quadrant S 28 in N. W. quadrant RESERVE in N. W. and S. W. quadrants, with 3 notches on E. and I on south sides from which
                    notches on E. and I on south sides, from which
A pinion, 14 ins. diam., bears N. 24° E., 86
lks. dist., marked T 30 S R 6 E S 27 B T
A pinion, 10 ins. diam., bears S. 69° E., 57
lks. dist., marked T 30 S R 6 E S 34 B T
A pinion, 6 ins. diam., bears S. 7° W., 107
lks. dist., marked RES T 30 S R 6 E S 33
                           A pinion, 12 ins. diam., bears N. 1: 60 lks. dist., marked RES T 30 S
                                                                                                   12°30' W.,
                                                                                                       R 6 E
                                S 28 B T
                 Land, mountainous and level.
                 Soil, rocky and sandy, 4th and 3rd rate.
                 Timber, pinion-pine and cedar.
                From corner of secs. 27, 28, 33 and 34, I run N. 0°02' W. on true line between secs. 27 and 28,
                     through thick pinion and cedar timber over level
                     plateau.
21.00
                 Begin descent, bears N. 60° W. and S. 60° E.
25.00
                 Base of 80-foot descent, bears N. 60° W. and
                     S. 60° E.
29.65
                North Fork of Sulphur Creek, 30 lks. wide, 15 ft. banks, course S. 60° E.; stream of alkali water,
                     in bed of creek, 2 lks. wide, 1 in. deep.
                Begin ascent, bears N. 60° W. and S. 60° E. Draw, 5 lks. wide, course S. 30° W. Draw, 5 lks. wide, course S. 30° W.
31.00
35.00
36.80
                Set sandstone 22x8x6 ins., 18 ins. in ground for 1/4 sec. corner, marked 1/4 on W. face, from
40.00
                    which
                          A pinion, 10 ins. diam., bears S. 63°45' E.,
29 lks. dist., marked 1/4 S 27 B T
A pinion, 10 ins. diam., bears S. 84°45' W., 42
lks. dist., marked RES 1/4 S 28 B T
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Chains.
  42.50
                   Draw, 10 lks. wide, course S. 30° W.
                  Draw, 15 1ks. wide, course S. 10° W.
Draw, 10 1ks. wide, course S. W. (40 ft. deep).
Top of 550 ft. ascent, bears N. 70° W. and S. 70° E.
  57.60
  68.00
  76.00
                       Thence continue gradual ascent over rolling
                       plateau.
 80.00
                   Set iron U. S. Forest Reserve Boundary Post No. 74,
                       6 ins. in ground to solid rock and build mound of stone, 6 ft. base, 3 ft. high, around same for corner of secs. 21, 22, 27 and 28, marked T 30 S S 22 in N. E. quadrant R 6 E S 27 in S. E. quadrant
                       S 28 in S. W. quadrant
S 21 in N. W. quadrant
RESERVE in N. W. and S. W. quadrants on top of
                       cap, with 3 notches on E. and 2 on S. sides. from
                       which
                             A pinion, 6 ins. diam., bears N. 11° E., 56
lks. dist., marked T 30 S R 6 E S 22 B T
A pinion, 10 ins. diam., bears S. 87°15' E.,
52 lks. dist., marked T 30 S R 6 E S 27 B T
A pinion, 12 ins. diam., bears S. 70° W., 12
lks. dist., marked RES T 30 S R 6 E S 28
B T
                                   pinion, 10 ins. diam., bears N. 55°15' W., :
lks. dist., marked RES T 30 S R 6 E S 21
                              A pinion, 10 ins. diam.
                  Land, mountainous and rolling.
                  Soil, sandy and rocky, 4th rate.
                  Timber, small pinion-pine and cedar. Formation changes to limestone in north half.
                                                                                              August 12, 1904.
                  August 13:
                  At corner of secs. 21, 22, 27 and 28, at 7h04m45s a.m., 1.m.t., I set off 38°11' on latitude arc and 14°43'30" N. on the declination arc and es-
                      tablish meridian with solar; magnetic declination
                  16°06', and run
N. 0°02' W. on true line, between secs. 21 and 22,
                      through timber, ascending.
12.00
                  Wash, 5 1ks. wide, course S. 80° W.
                  Top of 100-foot ascent on W. end of ridge, thence over
15.00
                      rolling surface which drains to S. W.
21.50
                 Draw, 5 lks. wide, course W.
                 Begin descent, bears E. and W.

Set limestone 26x14x10 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on W. face, from which A pinion, 5 ins. diam., bears N. 28° E., 24 lks. dist., marked 1/4 S 22 B T

A pinion, 10 ins. diam., bears N. 65°30' W., 16 lks. dist., marked RES 1/4 S 21 B T

Base of 100-foot descent, at open bellow draw, which
38.00
40.00
                Base of 100-foot descent, at open nollow draw, which drains to N. 70° E.

Begin ascent, bears N. E. and S. 70° W.

Top of 200-foot ascent, bears N. 20° E. and S. 20° W.

Set iron U. S. Forest Reserve Boundary Post No. 75, 1 ft. in ground to solid rock and build mound of stone, 6 ft. base, 3 ft. high, around same, for corner of secs. 15, 16, 21 and 22, marked

T 30 S S 15 in N. E. quadrant

R 6 E S 22 in S. E. quadrant

S 21 in S. W. quadrant
45.00
                 Base of 100-foot descent, at open hollow draw, which
47.00
67.00
80.00
                                                        in S. W. quadrant in N. W. quadrant
                            S 16
                     RESERVE in S. W. quadrant, with 3 notches on E. and S. sides, from which
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Chains

A pinion, 6 ins. diam., bears N. 53° E., 29 lks. dist., marked T 30 S R 6 E S 15 B T A pinion, 8 ins. diam., bears S. 22°30' E., 1 lks. dist., marked T 30 S R 6 E S 22 B T A pinion, 14 ins. diam., bears S. 39° W., 53

lks. dist., marked RES T 30 S R 6 E

A pinion, 16 ins. diam., bears N. 17°30' W., 78 lks. dist., marked T 30 S R 6 E S 16

Land, mountainous and rolling. Soil, rocky, sandy and limestone. 4th rate. Timber, pinion-pine and cedar. Formation, sandstone top hills, with limestone sub-strata.

From corner of secs. 15, 16, 21 and 22, I run West on true line between secs. 16 and 21, over rolling land, through thick timber, (small). Juniper post, bears N. 20 lks. dist., marked "Center East, Treadwell Lode No. 7" of M. E. Smith and W. F. Mitchell's mineral claim.
Flat draw, 15 lks. wide, course S. 30° E. Set sandstone 26x16x8 ins., 18 ins. in ground for 1/4 sec. corner marked 1/4 on N. face, from

28.25 40.00

which

A pinion, 14 ins. diam., bears N. 36°30' E., 47 lks. dist., marked 1/4 S 16 B T

A pinion, 20 ins. diam., bears S. 43°30' E.,
46 lks. dist., marked RES 1/4 S 21 B T
Flat draw, 10 lks. wide, course S. 30° E.

Head of draw, 5 lks. wide, course S.

Set iron U. S. Forest Reserve Boundary Post No. 76,
18 ins. in ground to solid rock and build mound
of stone, 5 ft. base, 21/2 ft. high around same,
for corner of secs. 16, 17, 20 and 21, marked
T 30 S S 16 in N. E. quadrant

R 6 E S 21 in S. E. quadrant
S 20 in S. W. quadrant
S 17 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 4

notches on E. and 3 on S. sides, from which

A pinion, 10 ins. diam., bears N. 26°45' 47 lks. dist., marked T 30 S R 6 E S

A pinion, 16 ins. diam., bears S. 57°30' E., 19 1ks. dist., marked RES T 30 S R 6 E S 21 B T

A pinion, 14 ins. diam., bears S. 34° W., 65 lks. dist., marked RES R 6 E S 20 B T

A pinion, 10 ins. diam., bears N. 35°30' W., lks. dist., marked T 30 S R 6 E S 17 B 9
Land, level and rolling. S 17 B T Soil, sandy and rocky, limestone, 4th rate. Timber, thick small pinion-pine and cedar, and scattering yellow pine.

At the 1/4 sec. corner between secs. 16 and 21, I set off 14°38'30" N. on declination arc, and at 12h04m44, 1.m.t., observe sun on the meridian and obtain a reading of 38°12' on the latitude arc.

From corner of secs. 16, 17, 20 and 21, West on true line between secs. 17 and 20. over rolling tableland, through timber.

10.50

57.50 75.60 80.00

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Chains
              Draw, 10 lks. wide, course S. 20° E.
Post bears N. 50 lks. dist., marked "Westerly end center stake of the Anna No. 2 Lode". 6 ins.
  7.50
10.80
                  east of this post is post marked "Easterly end center stake of the Heckley No. 2 Lode", each noted running N. and S. 300 ft. dist.
16.05
              Draw 5 lks. wide, course S. 20° W.
              Draw, 10 lks. wide, course S. 20° W.
Set sandstone 26x10x8 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, from
21.00
40.00
                  which
                       A black pine, 12 ins. diam., bears N. 46 lks. dist., marked 1/4 S 17 B T
                                                                           bears N. 29°30' W.
                       A pinion, 14 ins. diam., bears S. 46°30' E., 48 lks. dist., marked RES 1/4 S 20 B T
                                                                              August 13, 1904
              August 15:
              Begin descent, bears N. W. and S. 80° E.
51.00
              Draw, 10 1ks. wide, course S. 30° W., at base of 200-foot descent; begin ascent, bears N. 30° E.
59.50
                  and S. 30° W.
              Top of 100-foot ascent, on S. slope of spur; thence along south slope of mountain over broken ground. Draw, 10 lks. wide, course S. Leave limestone, enter sandstone formation.
67.00
74.90
80.00
               True point for corner of secs. 17, 18, 19 and 20
              falls on draw, 10 lks. wide, course S. Set iron U. S. Forest Reserve Boundary Post No. 77,
80.36
                  12 ins. in ground to solid rock and build mound of stone, 5 ft. base, 3 ft. high, around same for witness corner to corner of secs. 17, 18, 19 and
                  20, marked
                  W C on top of cap,
T 30 S S 17 in N. E. quadrant
                  R 6 E S 20 in S. E. quadrant,
                  S 19 in S. W. quadrant,
S 18 in N. W. quadrant,
RESERVE in S. E. and S. W. quadrants, with 5
                  notches on E. and 3 on S. sides, from which
                        A pinion, 10 ins. diam., bears N. 30°30' E., 75 lks. dist., marked W C T 30 S R 6 E
                           S 17 B T
                        A cedar, 8 ins. diam., bears S. 62°E., 7 dist., marked RES W C T 30 S R 6 E
                                                                                              71 1ks.
                        A pinion, 20 ins. diam., bears S. 25° W., lks. dist., marked RES W C T 30 S R
                           S 19 B T
                        A pinion, 12 ins. diam., bears N. 497 W., lks. dist., marked W C T 30 S R 6 E
              Land, rolling and broken. Soil, rocky limestone and sandstone, 4th rate.
               Timber, thick pinion and cedar.
              From true point for corner of secs. 17, 18, 19 and 20, which is 36 lks. east of W C, I run West on true line between secs. 18 and 19, through timber, over broken surface, along south slope
                   of divide, between sulphur creek on the south and
                  Carcas Creek on the north.
11.00
              Draw, 15 lks. wide, course S.
              Draw, 15 lks. wide, course S. 20° E. Draw, 10 lks. wide, course S. E.
18.30
32.30
              Set trachyte boulder 30x22x14 ins. 22 ins. in the ground, for 1/4 sec. corner, marked 1/4 on N.
40.00
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face, from which

Chains.

46.85

49.15 60.60

65.35

75.37

A pinion, 10 ins. diam., bears N. 34°15' W.,
41 lks. dist., marked 1/4 S 18 B T
A pinion, 8 ins. diam., bears S. 60° W., 38
lks. dist., marked RES 1/4 S 19 B T
No work in p.m. on account of cloudy weather.

August 15, 1904. August 16: At 7h04ml1s a.m., 1.m.t., I set off 38°12' on latitude are and 13°47'45" N. on deoffclination are and continue west on true line.

Draw, 5 lks. wide, course S. 60° E. Head of Sulphur creek heads 1 ch. N. on divide.
Road, "Teasdale and Boulder", bears N. W. and S. E. Projecting red sandstone ledge, 30 ft. high, bears N. 30° W. and S. 30° E.

Draw, 15 lks. wide, course S. 30° E., into Sulphur Creek, heads 4 chs. N. on divide.

Intersect W. boundary of township 2.93 chs. south of corner of secs. 13, 18, 19 and 24, and

Set iron U. S. Forest Reserve Boundary Post No. 78, 30 ins. in ground and raise mound of stone, 31/2 ft. base, 1 ft. high, around same for C.C.of secs. 18 and 19 marked

secs. 18 and 19, marked C C on E. side of center on top of cap T 30 S S 18 in N. E. quadrant R 6 E S 19 in S. E. quadrant RESERVE in S. E., S. W. and N. W. quadrants on top of cap, with 3 notches on N. and S.

sides, from which

A pinion, 6 ins. diam., bears N. 68°30' E., lks. dist., marked C C T 30 S R 6 E S S 18 BT

A pinion, 6 ins. diam., bears S. 35° E., lks. dist., marked RES S 19 B T CC T 30 S R 6 E

Land, mountainous and rolling. Soil, rocky and sandy, 4th rate. Timber, thick pinion and juniper.

GENERAL DESCRIPTION T. 30 S., R. 6 E.

This township is rough, broken and rolling mountain land, some narrow glats and benches along Sulphur creek and in the southwest 1/4 suitable for agriculture if water could be obtained for irrigat-There is a cabin and abandoned ranch in sec. 35 on Sulphur creek. Timber principally small pinion-pine and cedar, with some scattering yellow pine suitable for lumber in S. W. 1/4 and along Sulphur creek. Southwest 1/4 of township is of sandstone formation. There is a strata of limestone and flint running N. W. and S. E. diagonally across township from N. W. corner to S. E. corner and contains copper stain; some copper has been mined near center and northwest portion of townmined near center and northwest portion of township, though claims are not being worked at present. Sulphur Creek traverses secs. 34, 35 and 36, emptying into Pleasant creek in sec. 36. Forks in sec. 34, one fork (dry) coming from N. 80° W. and one from N. W. The north fork has very little water, heading in secs. 18 and 19. Pleasant creek, a bold stream of fresh water, traverses the S. E. 1/4 of sec. 36 and passes through box canyon of limestone 10.00 chs. north of Sixth Standard Parallel South, forming good reservoir site.

```
Chains.
               In order to establish the south boundary of secs.
                   13 and 14, T. 30 S., R. 5 E., I proceed as fol-
               From notes of General Land Office the north boundary
                  of sec. 13 bears N. 29°39' E., 19.23 chs. dist., making sec. 12 and north boundary of sec. 13 a very small fraction, and in order to maintain
                  uniformity as much as possible and therefore
               throw fraction on south boundary of sec. 15. From corner of secs. 13, 18, 19 and 24, T. 30 S.
                  Rs. 5 and 6 E., which is trachyte boulder 12x12x10
                  ins. above ground, marked and witnessed as described by Surveyor General of Utah. At this corner I set off 38°12' on latitude are and 13°45'15"
                  N. on the declination arc, and at 9 a.m., 1.m.t.,
                 establish meridian with solar and run
              West on random line, setting and marking stakes at intervals of 10.00 chs. for future reference un-
              til I reach a point about south of the corner of secs. 10, 11, 14 and 15.
Being unable to find the 1/4 sec. corner between
                  secs. 14 and 15, I proceed to corner of secs.
                  10, 11, 14 and 15, which is trachyte 8x6x8 ins.
                  above ground, firmly set and marked as described
                  by the General Land Office.
               Thence I run
               S. 0°01' E.on true line between secs. 14 and 15,
                   through timber over rolling surface.
  5.00
               Begin descent, bears N. 30° E. and S. 30° W.
10.60
              Draw, 10 lks. wide, course N. 30° E., base of 40-foot descent.
              Elbow of same draw, course N. 20° W. from S. 20° W. Draw, 5 lks. wide, course N. 80° E. Begin ascent, bears N. E. and S. W. Top of 40-foot ascent, bears N. E. and S. W.
14.50
27.60
30.00
34.00
40.00
              After diligent search no trace of corner being
                  found and as no axe mark can be found on entire
                 half-mile, which is will taken on original timber, and as no notes were taken on original survey, the evidence is conclusive that the line survey, the evidence is reported. I therefore set
                  half-mile, which is through dense pinion cedar
                 has never been run as reported. I therefore set trachyte 24x8x6 ins., 10 ins. in the ground to solid rock and build mound of stone, 3 ft. base, 1 ft. high, around same for 1/4 sec. corner, marked
                 1 ft. nign, around same 101 1/4 on W. face, from which
A pinion, 10 ins. diam., bears N. 40°45' E.,
27 lks. dist., marked 1/4 S 14 B T
A cedar, 20 ins. diam., bears S. 50° W., 39
lks. dist., marked RES 1/4 S 15 B T
August 16, 190
                                                                             August 16, 1904.
              August 17:
45.25
              Draw, 15 lks. wide, course N. E. begin ascent over
                  bare rock surface.
              Intersect E. and W. line 90.12 chs. west of corner of secs. 13, 18, 19 and 24. The intersection or true point for corner of secs. 14, 15, 22 and 23, falls on unsafe ground in draw, 10 lks. wide,
62.00
              course N. W., 20 lks. N. of this point at
Set iron U. S. Forest Reserve Boundary Post No. 80
61.80
                 18 ins. in ground to solid rock and build mound of stone, 4 ft. base, 2 ft. high, around same for witness corner to corner of secs. 14, 15, 22 and
                 23, marked
W C on top of cap
T 30 S S 14 in N. E. quadrant
                 R 5 E S 23 in S. E. quadrent
                 S 22 in S. W. quadrant
S 15 in N. W. quadrant
RESERVE in N. W. and S. W. and S. E. quadrants,
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with 2 notches on E. and 3 on S. sides, from wh A pinion, 10 ins. diam., bears N. 45°45' E., 63 lks. dist., marked W C T 30 S R 5 E
Chains
                                                                       from which
                      S 14 B T
                   A pinion, 12 ins. diam., bears S. 40°15' E. 27 lks. dist., marked RES W C T 30 S R
                                                                    T 30 S R 5 E
                      S 23 B T
                   A pinion, 12 ins. diam., bears S. 25°15' W. 45 lks. dist., marked RES W C T 30 S R
                      S 22 B T
                   A pinion, 14 ins. diam., bears N. 34° W., 61 lks. dist., marked RES W C T 30 S R 5 E
                      S 15 B T
62.00
            True point for corner of secs. 14, 15, 22 and 23.
           Land, rolling and mountainous. Soil, rocky and sandy, 4th rate.
            Timber, small pinion-pine and cedar.
            From true point for corner of secs. 14, 15, 22 and
               23, which is 20 lks. south of witness corner
               I run (see random previously run)
            East on true line between secs. 14 and 23, through
               timbered mountain land, ascending, bears N. E. and
           Draw, 5 lks. wide, course N. W. West wall of narrow canyon, 150 ft. deep, course
10.00
12.50
              N. 20° W., heads 1 ch. south of line.
16.60
            Top of east wall of canyon.
22.50
            Top of abrupt ascent, 350 ft. above sec. corner;
              continue gradual ascent, bears N. 80° E. and S. 30° W.
35.00
            Top of gradual ascent, bears N. 30° E. and S. 70° W.
              400 ft. above sec. corner; thence over rolling bench, through yellow pine timber.
           Set trachyte boulder 22x16x8 ins., 15 ins. in
40.00
              ground for 1/4 sec. corner, marked 1/4 on N.
              face, from which
           A yellow pine, 24 ins. diam., bears N. 68° W.,
42 lks. dist., marked 1/4 S 14 B T
A yellow pine, 18 ins. diam., bears S. 6° W.,
29 lks. dist., marked RES 1/4 S 23 B T
Begin descent, bears N. 10° E. and S.
42.50
           Base of 50-foot descent, at draw 10 1ks. wide, course N. 30° E.; begin ascent.
Top of 40-foot ascent, bears N. 30° E. and S. 30° W;
48.00
53.50
              leave yellow pine timber, continue in small tim-
56.00
           Begin descent, bears N. 20° E. and S. 40° W.
           Set trachyte boulder 22x16x8 ins., 18 ins. in t ground for corner of secs. 13, 14, 23 and 24, marked with 1 notch on E. and 3 on S. sides,
80.00
                                                              18 ins. in the
              from which
                  A pinion, 10 ins. diam., bears N. 36°30' E., 26 lks. dist., marked T 30 S R 5 E S 13
                  A pinion, 16 ins. diam.,
                                                     bears S. 12°15' E.,
                     38 lks. dist., marked RES T 30 S R 5 E
                     S 24 B T
                  A pinion, 10 ins. diam., bears S. 67° W.,
                     lks. dist., marked RES
                                                      T 30 S R 5 E
                  A pinion, 8 ins. diam., bears N. 56° W., 65 lks. dist., marked T 30 S R 5 E S 14 B T
           Corner falls at base of 500 foot descent, bearing
              N. 20° W. and S. 20° W.
           Land, mountainous and rolling.
           Soil, rocky, gravelly, 4th rate.
           Timber, pinion-pine and cedar; yellow pine suitable for timber on last half and to south of line.
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Chains.
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0.20

6.10

10.08

10.12

From corner of secs. 13, 14, 23 and 24, T. 30 S., R. 5 E., I run

East on true line between secs. 13 and 24, over

rolling surface, through small timber. Draw, 10 lks. wide, course S. 30° E., heads on divide 5.00 chs. N.

Draw, 15 lks. wide, course N. 70° E.

Intersect boundarypost No. 79 described below.

Corner of secs. 13, 18, 19 and 24, which is trachyte stone l2x12x10 ins. above ground marked and witnessed as described by Surveyor General of Utah. As closing corner is set for corner of secs. 18 and 19 on line from east, between secs. 18 and 19, I cut out markings on N. E. and S. E. bearing

trees at this corner making same corner common to 2 secs., and at 4 lks. west of corner Set iron U. S. Forest Reserve Boundary Post No. 79 18 ins. in ground to solid rock, and build mound of stone, 4 ft. base, 2 ft. high, around same for witness corner to corner of secs. 13 and 24, marked

W C on top of cap R 5 E S 13 in N. W. quadrant T 30 S S 24 in S. W. quadrant RESERVE in S. W. quadrant, with 3 notches on N. and S. sides.

As the northwest bearing tree of this corner is dead I take in addition thereto

A pinion, 12 ins. diam., which bears N. 45°45' W. from true corner, 14 lks. dist., and mark same T 30 S R 5 E S 13 B T

Land, rolling. Soil, rocky and sandy. Timber, pinion-pine and cedar.

From corner of secs. 10, 11, 14 and 15, which is a trachyte 8x6x8 ins. above ground, firmly set and marked as called for in notes of General Land Office. This corner having no bearing trees, I note and mark the following:

A pinion, 10 ins. diem., which bears N. 71° E. 44 lks. dist., marked T 30 S R 5 E S 11 B

A pinion, 10 ins. diam., which bears S. 29° E., 71 lks. dist., marked T 30 S R 5 E S 14 B T A pinion, 8 ins. diam., which bears S. 38° W., 44 lks. dist., marked RES T 30 S R 5 E S 15 B T

A pinion, 12 ins. diam., bears N. 4°30' W. 1ks. dist., marked T 30 S R 5 E S 10 B T Thence I run

West on random retracement line, between secs. 10 and 15, through timber over rolling surface. Intersect N. and S. 1/4 sec. line 76 lks. south of 1/4 sec. corner, which is a trachyte stone 16x8x12 ins. above ground, marked 1/4 on N. face and from which

A pinion, 12 ins. diam., bears S. 15° E., 23

lks. dist. Old markings being on a limb of this tree, I mark on trunk near ground RES 1/4 S 15 B T

A juniper, 10 ins. diam., bears N. 49° W., 12 lks. dist., contains old marking 1/4 S B T

Thence from the 1/4 corner above described I run S. 88°54' E. on true retracement line between east halves of secs. 10 and 15, through timber, descending.

Base of 80-foot descent, hears N.20° E. and S. 20° W. Leave timber, enter open flat, same bearing.

39.B6

5.00

```
Chains.
12.00
             Irrigating ditch, 10 lks. wide, water 6 ins. deep,
12.80
             Road, bears N. and S.
             "Carcas" Creek, 10 lks. wide, 6 ins. deep, fresh water, course N.
16.30
            Road, bears N. and S.
Leave open flat, enter timber and begin ascent, bears N. 20° W. and S.
18.80
20.10
             Top of 60-foot ascent, bears N. and S., begin
23.30
                descent.
29.30
            Draw, 10 lks. wide, course N. 20° E., at base of 60-foot descent, begin ascent.
            Top of 40-foot ascent, bears N. 20° E. and S.20° W. Set iron U. S. Forest Reserve Boundary post No. 81, 24 ins. in ground, and build mound of stone, 3 ft. base, 11/2 ft. high, around same for witness
35.30
39.23
                corner to corner of secs. 10, 11, 14 and 15,
                marked
               W C on top of cap
T 30 S S 11 in N. E. quadrant
R 5 E S 14 in S. E. quadrant
               S 15 in S. W. quadrant
S 10 in N. W. quadrant
RESERVE in S. W. quadrant on top of cap, with 2
                notches on E. and 4 on S. sides.
39.26
             Intersect corner of secs. 10, 11, 14 and 15.
                        from 1/4 sec. corner between secs. 10 and
             Thence
                15 I run
            West on random retracement line between west halves
                of secs. 10 and 15.
             Intersect N. and S. section line 20 lks. S. of cor-
40.07
               ner of secs. 9, 10, 15 and 16, which is a trachyte stone 18x12x10 ins. above ground, with mound of stone, 3 ft. base, 2 ft. high, S. of corner,
                from which old bearing tree a
A pinion, 14 ins. diam., bears N. 11° E., 45
lks. dist., marked T 30 S R 5 E S 10 B T
                        This tree not called for in notes.
             I take as additional witness trees:
                    A pinion, 12 ins. diam., which bears S. 76°15' E. 121 lks. dist., marked RES T 30 S R 5 E
                    S 15 B T
A cedar, 10 ins. diam., bears S. 22°30' W.,
                        lks. dist., marked RES
                                                             T 30 S R 5 E
                    A cedar, 5 ins. diam., bears N. 24°45' W.,
                                                                                        40
                                                             T 30 S R 5 E
                        1ks. dist. marked RES
            Three lks. W. of this corner I set iron U. S. Forest Reserve Boundary Post No. 82, 30 ins. in ground and build mound of stone, 3 /2 ft. base, 1 /2 ft. high, around same for witness where to corner of
               secs. 9, 10, 15 and 16, marked W C on top of cap
T 30 S S 10 in N. E. quadrant
R 5 E S 15 in S. E. quadrant
               S 16 in S. W. quadrant
S 9 in N. W. quadrant
RESERVE in N. W., S. W. and S. E. quadrants,
with 3 notches on E. and 4 on south faces.
             Thence from corner above described I run
             South 89°43' E. on true retracement line between west
                halves of secs. 10 and 15, through scattering
                timber over rolling surface.
18.70
            Draw, 10 1ks. wide, course N. E.
            Begin descent, bears N. and S. Intersect 1/4 sec. corner between secs. 10 and 15, which is 40 ft. below summit.
39.00
40.07
            Land, hilly and rolling.
```

```
Soil, rocky and sandy, 4th rate.
Chains.
             Timber, small pinion and cedar.
                                                                      August 17, 1904.
             August 18:
             At the corner of secs. 9, 10, 15 and 16, at 7h03m45s a.m., l.m.t., I set off 38°13' on latitude arc and 13°09'30" N. on the declination arc and es-
                 tablish a meridian with the solar.
             Thence I run
N. 0°02' W. on random retracement line between
             secs. 9 and 10, through timber.
Intersect E. and W. 1/4 sec. line 64 lks. W. of
40.53
                1/4 sec. corner between secs. 9 and 10, which is a
                trachyte 12x8x10 ins. above ground, marked and wit-
                nessed as described in notes of General Land Of-
                 fice. As the southwest bearing tree is dead, I
               take in addition thereto:
                     A cedar, 8 ins. diam., which bears S. 89° W.,
                         33 lks. dist., marked RES 1/4 S 9 B T
             Thence from the 1/4 sec. corner I run
             S. 0°53' W. on true retracement line between south halves of secs. 9 and 10, from 1/4 corner in N. edge of timber, bearing E. and W. Open hollow swail, course E. Wash, 3 lks. wide, course N. 20° E. Same wash, course N. W.
 9.00
17.00
21.25
             Begin ascent, bears N. 80° E. and S. 80° W.
24.00
            Top of 60-foot ascent, bears E. and W. Begin descent, bears E. and W. Base of 30-foot descent, bears E. and W. Draw, 5 lks. wide, course E. At corner of secs. 9, 10, 15 and 16.
31.00
35.50
38.00
40.35
40.53
             Thence from the 1/4 sec. corner between secs. 9 and
                10 I run
             N. 0°02' W. on random retracement line between secs.
             9 and 10 over open bench.

Intersect E. and W. sec. line 68 lks. W. of corner to secs. 3, 4, 9 and 10, which is a trachyte stone 15x10x4 ins. above ground correctly marked,
                9 and 10 over open bench.
38.47
                as witness trees to this corner
                     A cedar, 12 ins. diam., which bears N. 19°30' E., 40 lks. dist., marked T 30 S R 5 E S 3 B T A pinion, 10 ins. diam., bears N. 52°15' W., 81 lks. dist., marked T. 30 S. R 5 E S 4 B T
                     No other trees available.
             Thence from the corner of secs. 3, 4, 9 and 10, I
             S. 0°58' W. on true retracement line between north
                halves of secs. 9 and 10, through scattering
                timber.
             I set iron U. S. Forest Reserve Boundary Post No. 83, 30 ins. in ground, for W. C. to corner of secs. 3, 4, 9 and 10, marked W C on top of cap
   .03
                T 30 S S 3 in N. E. quadrant R 5 E S 10 in S. E. quadrant
                S 9 in S. W. quadrant
S 4 in N. W. quadrant
RESERVE in S. W. quadrant on top of cap, with 3
notches on E. and 5 on S. sides.
             Leave scattering timber, enter open flat, bears N. 70° E. and S. 70° W., flat drains to E.
 2.30
             Leave open flat, enter timber, bears E. and W. Leave timber, enter open bench, bears E. and W.
 6.50
30.00
38.47
             Intersect the 1/4 sec. corner between secs. 9 and 10.
             Land, rolling and level
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Soil, rocky and gravelly, 3rd and 4th rate.
Chains.
                  Timber, pinion-pine and cedar.
                  No noon observation on account of cloudy weather.
                  From corner of secs. 3, 4, 9 and 10 previously described I run
                  West on random retracement line between secs. 4
                       and 9.
                  No trace of 1/4 sec. corner found. stake for same and continue west.
40.00
                                                                                                     I set temporary
                  Intersect N. and S. sec. line 8 lks. south of corner of secs. 4, 5, 8 and 9, which is a trachyte 16x5x12 ins. above ground correctly marked. There are no witness trees as called for in the
77.09
                       General Land Office notes, and I note and mark
                       the following:
                             A pinion, 5 ins. diam., which bears N. 9° E., 46 lks. dist., marked T 30 S R 5 E S 4 B A pinion, 10 ins. diam., bears S. 45°30' E., lks. dist., marked RES T 30 S R 5 E S 9 B T
                                                                                   bears S. 43°30' W., 6
S T 30 S R 5 E S 8
                              A pinion, 6 ins. diam.,
                                  1ks. dist., marked RES
                  A pinion, 12 ins. diam., bears N. 82°30' W., 24 lks. dist., marked T 30 S R 5 E S 5 B T

Five lks. west of this corner I set iron U. S. Forest Reserve Boundary Post No. 84, 30 ins. in ground and build mound of stone, 3 ft. base, 11/2 ft. high around same for W. C. to corner of secs.
                       4, 5, 8 and 9, marked W C on top of cap
                       T 30 S S 4 in N. E. quadrant R 5 E S 9 in S. E. quadrant
                       S 8 in S. W. quadrant
                  S 5 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 4
notches on E. and 5 on S. sides.
Thence from the true corner of secs. 4, 5, 8 and 9
                       I run
                  S. 89°57' E. on true retracement line between secs. 4 and 9, through timber ascending. Top of 40-foot ascent, bears N. W. and S. E. Begin descent, bears N. W. and S. E. Base of 40-foot descent, bears N. W. and S. E.
  4.00
  7.00
12.00
                  Draw, 5 lks. wide, course N. 20° E.
Draw, 5 lks. wide, course N. 20° E.
Set trachyte stone 22x8x4 ins. 15 ins. in ground
for 1/4 sec. corner, marked 1/4 on N. face, from
21.50
28.70
38.54
                       which
                  A pinion, 8 ins. diem., bears N. 28°30' E., 4!

lks. dist., marked 1/4 S 4 B T

A pinion, 12 ins. diam., bears S. 27° E., 23

lks. dist., marked RES 1/4 S 9 B T

Road, bears N. and S.

Begin descent, bears N. E. and S. W.

Base of 100-foot descent, leave timber, enter open

flat, bears N. and S. Flat drains to N. E.
                                                                                    bears N. 28°30' E., 45
43.00
49.50
56.00
                  Leave flat, enter timber and begin ascent, bears
65.90
                       N. 70° E. and S. 70° W.
                  Top of 30-foot ascent, bears N. 70° E. and S.70°W.
70.00
                  on trachyte ridge; begindescent, same bearing. At corner of secs. 3, 4, 9 and 10, on S. E. slope of ridge, 80 ft. below summit. Land, rolling and hilly. Soil, rocky and gravelly, 4th rate.
77.09
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Chains
            Timber, pinion-pine and cedar.
            Local attraction of the magnetic needle on this
            Note: This line has never been run as reported.
               No axe sign whatever through dense timber and
               notes show no acquaintance with country.
                                                                August 18, 1904.
            August 19: At the corner of secs. 4, 5, 8 and 9 previously described, at 7h03m30s a.m., 1.m.t., I set off 38°14' on the latitude arc and 12°50'
            {\tt N.} on the declination are and run West on random retracement line, through timber,
               descending.
29,24
            Intersect N. and S. 1/4 sec. line 53 lks. S. of
               the 1/4 corner between secs. 5 and 8, which is a trachyte 10x4x8 ins. above ground, marked 1/4 on N. face, as described by the General Land
               Office and witnessed by a
                   Pine, 6 ins. diam., which bears N. 17°15' W.,
46 lks. dist., marked 1/4 S B T, instead of
Pine, 6 ins. diam., N. 15° W., 46 lks. dist/,
                      as reported by the General Land Office.
            I take as an additional bearing tree a
Pinion, 10 ins. diam., which bears S. 58°45' W.,
                    38 lks. dist., marked RES 1/4 S 8 B.T.
This B. T. taken instead of old bearing tree
                       called for in notes, which is dead and fallen
                     though old markings are still readable.
            Thence from the 1/4 sec. corner between secs. 5 and
               8 I run
            S. 88°59'
                           E. on true retracement line through
               timber.
 1.20
            Begin descent, bears N. and S.
 4.00
            Base of 50-foot descent at Fish Creek, a stream of
               fresh water, 8 lks. wide, 10 ins. deep, course N.
            Old road, begin ascent, bears N. and S. Top of 50-foot ascent, bears N. and S. Draw, 10 lks. wide, course N. Begin descent, bears N. and S.
 4.30
 7.70
12.70
18.00
            Old road, bears N. 20° W. and S. 20° E. Draw, 10 lks. wide, course N. 20° W., at base of
25.05
27.80
               20-foot descent; begin ascent, bears N. 20° W.
               and S. 20° E.
29.24
            Intersect corner of secs. 4, 5, 8 and 9.
            Thence from the 1/4 sec. corner between secs. 5
               and 8 I run
            West on random retracement line between west halves
               of secs. 5 and 8.
            Intersect N. and S. sec. line 142 lks. N. of corner of secs. 5, 6, 7 and 8, which is a cross (X ) on sandstone ledge, as described in notes of
39.13
               General Land Office, from which
A yellow pine, 22 ins. diam., bears N. 81°30' F
31 lks. dist., marked T 30 S R 5 E S 5 B T
                   This tree was marked with pencil for old B.T.,
                       though not called for in notes.
           No other trees available.
Enter timber, bears N. and S.
100 lks. E. of true corner I set iron U.S. Forest
   .80
 1.00
               Reserve Boundary Post No. 85, 20 ins. in ground to rock, and build mound of stone, 4 ft. base, 2
               ft. high around same, for W. C. to corner of
              w C on top of cap
T 30 S S 5 in N. E. quadrant
R 5 E S 8 in S. E. quadrant
               S 7 in S. W. quadrant
               S 6 in N. W. quadrant
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RESERVE in S. E. and S. W. quadrants, with 5 notches on S. and E. sides.
Chains
            Thence from the true corner I run
            N. 87°55' E. on true retracement line, between west
              halves of secs. 5 and 8 over bare rock surface
               along steep north slope of mountain.
           Draw, 10 lks. wide, course N. down hillside; begin ascent, bears N. 70° E. and S. 70° W. Top of 50-foot ascent, bears N. 70° E. and
 6.50
12.00
              S. 70° W.
19.10
            Begin descent, bears N. 70° W. and S. 70° E.
           Base of 70-foot descent, bears N. E. and S. W. Intersect the 1/4 sec. corner between secs. 5 and 8. Land, mountainous and rolling.

Soil, rocky and gravelly.
35.00
39.13
            Timber, pinion and cedar.
           At corner of secs. 5, 6, 7 and 8, I set off 12°44'45' N. on the declination arc and at 12h03m33's 1.m.t., observe sun on the meridian and obtain a reading of 38°14' on the latitude
              arc.
            From true corner of secs 5, 6, 7 and 8 previously
               described I run
            West on random retracement line between secs. 6
               and 7 along steep N. slope of bare sand rock
               ledge.
            No trace of old 1/4 sec. corner being found, I set iron U. S. Forest Reserve Boundary Post No. 86
40.00
               30 ins. in ground and build mound of stone, 3 ft. base, 1 ft. high, around same for 1/4 sec.
               corner, marked
              T 30 S 1/4 S 6 on N. side
R 5 E 1/4 S 7 on S. side,
RESERVE in S.E., S.W. and N.W. quadrants, from
                   A yellow pine, 18 ins. diam., bears N. 3 7 lks. dist., marked RES 1/4 S 6 B T
                   A pinion, 8 ins. diam., bears N. lks. dist., marked 1/4 S 6 B T
                   Both trees taken in sec. 6, as none available
                      in sec. 7.
            Note: West boundary of township is not reported run
              further south than 1/4 between 1 and 6.
            Thence from the 1/4 corner between secs. 6 and 7
              established by me I run
           East on true line between secs. 6 and 7, through
           scattering timber.

Draw, 15 lks. wide, course N. 20° E.; begin ascent.

Top of 80-foot precapitous ascent, bears N. 30° E.
   .50
 2.50
              and S. W.; thence along steep bare rock north
              slope of mountain.
 8.50
           Begin precipitous ascent, bears N. 70° E. and S. 70° W.
           Top of 100-foot ascent on N. slope of sandstone ledge, bears N. and S., about 250 chs. south of
11.00
              rock saddle, begin precipitous descent, bears N. and S. 60° E.
13.80
           Base of 250-foot descent, bears N. and S., at foot
              of sandstone ledge, thence through timbered cove.
           Draw, 10 lks. wide, course N. 70° E., heads in
16.00
              Cove Canyon, 10.00 chs. S. W.
20.75
           Draw, 10 lks. wide, course N.
Draw, 10 lks. wide, course N. 20° E.; begin ascent,
bears N. 20° E. and S. W.
28.50
           Leave timber and continue ascent up bare sandstone
37.00
              ledge, bears N. and S.
39.00
           Top of 100-foot ascent on north slope of sand rock
              ledge; begin descent, bears N. 70° W. and S. 70° E.
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Chains.
           Intersect corner of secs. 5, 6, 7 and 8. Soil, sandy and bare rock.
40.00
           Timber, pinion and scattering yellow pine in cave.
           From the 1/4 sec. corner on south boundary of
           sec. 6 I run
N. 0°03' W. on random line through center of sec. 6
16.81
           Offset east 8.06 chs.
39.48
           Take up offset west 8.06 chs. to random line.
40.00
           Set stake for temporary center sec. 6. Offset east 2.50 chs.
60.61
73.14
           Take up offset west 2.50 chs. to random line.
81.57
           Intersect north boundary of township 12.28 chs. east
              of 1/4 sec. corner between secs. 6 and 31, which
              corner I establish below.
           Thence from the 1/4 corner between secs. 6 and 31
              I run
           S. 8°37' E. on true line through sec. 6.
           Draw in flat, course E. North face of sandstone butte 100 ft. high.
  7.60
 8.50
           South face of butte, re-enter flat.
11.00
39.90
           True point for center corner established August 20.
           Set stake for temporary center corner. #
North face of sandstone ridge 200 ft. high.
South face of ridge, bears N. L. and S. W. Draw,
10 lks. wide, course N. E.; thence over rolling
41.25
43.00
65.00
              timbered land.
           Intersect the 1/4 sec. corner between secs. 6 and 7 Final distance of center from south boundary 42.60,
82.50
              from north boundary 39.90 (see page
                  RETRACEMENT OF FRACTIONAL NORTH BDY. T. 30 S.,
                                                                                    R.5 E.
           From true point for corner of Tps. 29 and 30 S.
              Rs. 4 and 5 E., which is 50 lks. south of W. C.,
              I run
           East on blank random retracement line between
              secs. 6 and 31.
           Set stake for temporary 1/4 sec. corner, no trace of old corner being found.
39.44
           Intersect N. and S. sec. line 25 lks. N. of corner
79.80
              of secs. 5, 6, 31 and 32.
           Thence I run
           N. 89°49' w. on true retracement line between
           secs. 6 and 31 (original line lepolitical dividing discrepancy proportionately).

Set sandstone 20x12x5, 15 ins. in ground, for 1/4 sec. corner marked 1/4 on N. face, and dig pits and W. of.corner, 4 ft. dist.,
              secs. 6 and 31 (original line reported 79.44,
40.18
              18x18x12 ins. r. and W. of corner, 4 ft. dist., and raise mound of earth 3^{1}/2 ft. base 1^{1}/2 ft.
              high north of corner.
           Intersect true point for corner of townships 29 and 30 S., Rs. 4 and 5 E.
79.80
                                                        August 19, 1904
                                 T. 30 S., Rs. 4 and 5 E.
           August 20:
           From true point for corner of Tps. 29 and 30 S., Rs. 4 and 5 E., 50 lks. S. of W. C., which is a sandstone correctly marked, but is broken off at
           surface of ground, and I replace same with Iron U. J. Forest Reserve Boundary Post No. 89,
              set 30 ins. in ground, with mound of earth, 3^{1}/2
              ft. base, 1^1/2 ft. high around same, for W. C. to corner of townships 29 and 30 S., Rs. 4 and 5
              E. marked
              W C on top of cap
              T 29 S
                       S 31 in N. E. quadrant
              R 5 E
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R 5 E S 6 in S. E. quadrant T 30 S S 1 in S. W. quadrant T. 30 S., Rs. 4 and 5 E.

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Chains
                   R 4 E S 36 in N. W. quadrant
                   RESERVE in S. W. quadrant, with 6 notches on
N., E., S. and W. sides, and dig pits 24x24x12 on
each line N., E. and W., four ft. distant, and S.8 ft. dist.,
raise mound of earth, 5 ft. base, 21/2 ft. high
                   south of W. C.
                Thence from true point for corner on north bank of
                    draw, I
                                   run
                Southon random retracement line between secs. 1
                   and 6.
               No trace of old 1/4 sec. corner being found and no evidence to show that this line was ever run, I set 0. S. Forest Reserve Boundary Post No. 88, 30 ins. in ground and raise mound of earth, 4 ft. base, 11/2 ft. high around same, for 1/4 sec.
40.00
                   corner, marked
T 30 S R 5 E
                   T 30 S R 5 E 1/4 S 6 on east half
R 4 E 1/4 S 1 on west half
RESERVE in S. E., S. W. and N. W. quadrants,
                   from which
               A pinion, 14 ins. diam., bears N. 65°15' E.,
295 lks. dist., marked 1/4 S 6 B T

A yellow pine, 16 ins. diam., bears N. 73°45' W.,
249 lks. dist., marked RES 1/4 S 1 B T

Thence from the 1/4 sec. corner I run

North on true line between secs. 3 cm² C.
               North on true line between secs. 1 and 6, over gent-
ly rolling land, through scattering timber.
               Begin precipitous ascent up south side of isolated
10.00
               sandstone ridge, bears E. and W. Top of ridge, 250 ft. high, bears N. E. and S. W.;
28.00
                    begin abrupt descent.
                 Base of 250-foot descent, reenter flat, bears N.E. and S. W.
  34.50
               Draw, 20 lks. wide, course N. 20° E.
39.80
               Intersect true point for corner of townships 29 and 30 S., Rs. 4 and 5 E.
40.00
               Land, level and 'precipitous.
                Soil, sandy and bare rock.
                Timber, scattering yellow pine in flats.
                                      T. 30 S., R. 5 E.
               From the 1/4 sec. corner on west boundary of sec. 6
                    I run
               East on random line through center of sec. 5. Intersect east boundary of sec. 6 82 lks. south of the 1/4 sec. corner between secs. 5 and 6, which
79.66
                   is a sandstone 12x6x8 ins. above ground, marked
                   and witnessed by three bearing trees, as des-
                   cribed in notes of General Land Office.
               Thence I run
               S. 89°25' W. on true line through center of sec. 6.
33.77
                Intersect true line N. and S. through center, 1.35
                   chs. N. of temporary stake set on true line, running from 1/4 sec. corner on N. Boundary to 1/4 sec. corner on south boundary of S. 6.
               At the point of intersection I set iron U. S. For-
                   est Reserve Boundary Post No. 87, 30 ins. in ground, and build mound of earth 3 /2 ft. base, 1 /2 ft. high, around same for center of corner of sec. 6, marked "CENTER" S 6 around N. semicircle T 30 S In S. W. quadrant
                  T 30 S In S. W. quadrant
R 5 E in S. E. quadrant
RESERVE in S. W. quadrant, from which
A yellow pine, 22 ins. diam., bears N. 27°30' E.,
157 lks. dist., marked N E 1/4 S 6 B T
A yellow pine, 22 ins. diam., bears S. 23°30' E.,
339 lks. dist., marked S E 1/4 S 6 B T
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A yellow pine, 26 ins. diam., bears S. 79° W. 371 lks. dist., marked RES S W 1/4 S 6 B T A yellow pine, 24 ins. diam., bears N. 32°45' 282 lks. dist., marked N W 1/4 S 6 B T Chains East base of sandstone butte 100 ft. high. West base of butte, reenter flat. Draw, 10 lks. wide, course N. 70° E. Flat wash, 15 lks. wide, course N. 20° E. 35.60 45.30 56.40 64.00 Draw, 10 1ks. wide, 5-foot banks, course N. 30° E. Leave thick timber, enter open flat of scattering timber, bears N. 20° E. and S. 20° W. Draw, 10 1ks. wide, course N. 20° E. Intersect 1/4 sec. corner on west boundary of sec.6. 68.50 74.30 76.20 79.66 Land, level, rolling flats, dotted with bare rock buttes from 100 to 200 ft. high. Soil, sandy, 3rd and 4th rate. Timber, pinion and scattering yellow pine. Previous surveys show the southeast corner of sec. 6 badly out of place with respect to other corners of section, and to check my work I begin at the 1/4 sec. corner on east boundary of sec. 6 and run East 12.42 chs. and thence south on blank line and at 42.35 Intersect the east and west sec. line 3 lks. east of corner of secs. 5, 6, 7 and 8, which proves my work correct and demonstrates that this line has never

been run further south than the 1/4 sec. corner between secs. 5 and 6, and error in chaining on south boundary of sec. 5 was not found on this account.

August 20, 1904.

GENERAL DESCRIPTION T. 30 S., R. 5 E.

Is mountainous land, draining to N. E. The foothills and flats lying in northeastern portion of township are susceptible and some are now under cultivation in 200 11 2 2 and 5 mbs.

Is mountainous land, draining to N. E. The foothills and flats lying in northeastern portion of township are susceptible and some are now under cultivation in sec. 11, 2, 3 and 5. The township is watered by Carcas Creek and Fish Creek, both of which are clear fresh water mountain streams and are partially used in irrigating. The foothills and benches and along streams in central and southern portions of township has scattering yellow pine suitable for lumber, and a sawmill is now in operation in southwestern portion of township. Much local attraction in township.

Magnetic declination 15°50' E.

SOUTH BOUNDARY T. 29 S., R. 4 E.

August 22:
At true point for corner of Tps. 29 and 30 S.,
Rs. 4 and 5 E., 50 lks. south of W. C. previously described, at 7h02m458 a.m., l.m.t., I set off
38°14'45" on latitude arc and ll°50'45" N. on the
declination arc and establish meridian with the
solar. Magnetic declination 16°10' E.

Thence I run

44.37

81.60

West on random retracement line between secs. 1 and 36, over level open land.

No trace of old W. C. 1/4 sec. corner being found, I set temporary stake at 40.00 chs. and continue west.

Intersect N. and S. sec. line 85 lks. N. of corner of secs. 1, 2, 35 and 36, which is a trachyte stone 8x6x4 ins. correctly marked and lying on top of ground in small pile of stone, and witnessed by two bearing trees not called for in notes of General Land Office. This corner being de-

South Bdy. T. 29 S., R. 4 E.

```
Chains
              fective in size,
           I set in its place iron U. S. Forest Reserve Boun-
             dary Post No. 90, 18 ins. in ground to rock and build mound of stone, 4 ft. base, 2+/2 ft. high
              around same, for corner of secs. 1, 2, 35 and 36,
             marked
             T 29 S S 36 in N. E. quadrant R 4 E S 1 in S. E. quadrant
             T 30 S S 2 in S. W. quadrant
S 35 in N. W. quadrant
RESERVE in S. E., S. W. and N. W. quadrants,
with 1 notch on E. and 5 on W. sides, from which
A pinion, 10 ins. diam., bears N. 38°15' E.,

marked T 29 S R 4 E S 36
                    B T (old B T).
                  A pinion, 10 ins. diam., bears S. 60°30' E., 10 lks. dist., marked RES T 30 S R 4 E
                     SIBT
                  A pinion, 16 ins. diam., bears S. 84°15' W. 1kg. dist., marked RES T. 30 S R 4 E S
                  A cedar, 12 ins. diam., bears N. 6°30' W.
                     lks. dist., marked RES B T (old B T).
                                                     T 29 S
                                                                R 4 E
           Thence from this corner I run
           N. 89°24' E. on true retracement line, descending
              through timber.
           Base of 250-foot descent, bears N. and S. Dry branch, 10 lks. wide, course N.
16.60
17.60
           Begin abrupt ascent, bears N. and S.
19.50
           Top of 80-foot ascent, bears N. and S.
22.00
           Begin descent, bears N. and S. E.
23.00
28.00
           Base of 200-foot precipitous descent at gulch, 10
              1ks. wide, course N.; begin precipitous ascent,
           bears N. and S.
Top of 100-foot ascent on north nose of rock spur.
31.50
              Begin descent.
           Base of 100-foot descent at gulch, course N.; begin
34.60
              precipitous ascent.
           Top of 200-foot precipitous ascent, bears N.
40.80
                                                                              and
              S. W.
           At true point for 1/4 sec. corner I mark cross (X) on solid rock ledge and mark 1/4 on N. side of
40.80
              cross, for 1/4 sec. corner, and build mound of stone, 31/2 ft. base, 21/2 ft. high, N. of corner.
              No bearing trees available.
           Begin precipitous descent, bears N. 20° W. and
42.70
              š. 20° E.
           Base of 350-foot precipitous descent, bears N.30°W. and S. 30° E. Leave bare rock cliffs, enter open
48.60
              flat, with some scattering timber.
           Intersect true point for corner of tps. 29 and 30 S., Rs. 4 and 5 E.
81.60
           Land, mountainous, precipitous and level.
           Soil, rocky, bare rock and sandy, 4th rate.
           Timber, pinion and cedar, scattering yellow pine
              in flat.
```

At corner of secs. 1, 2, 35 and 36, on south boundary of T. 29 S., R. 4 E., I set off 11°45'15"

N. on the declination arc, and at 12h02m49s 1.m.t. observe sun on meridian and obtain a reading of 38°14'45" on latitude arc.

Thence from this corner, which is previously described. I run

cribed, I run
N. 0°01' W. on random retracement line, between
secs. 35 and 36.

```
Chains
              Intersect E. and W. 1/4 sec. line 40 lks. east of
39.46
                  1/4 sec. corner between secs. 35 and 36, which is
                  a trachyte stone 10x8x6 ins., set 4 ins. in
                  ground; being undersize, I replace same with trachyte 22x14x10 ins., set 15 ins. in ground, for 1/4 sec. corner, marked 1/4 on W. face,
                  from which
                       A pinion, 6 ins. diam.,
                                                                bears S. 69° E.
                           lks. dist., old markings 1/4 S B T left
                           undisturbed.
                       A cedar, 14 ins. diam., bears S. 34° W., 11 lks. dist., remarked RES 1/4 S 35 B T These trees called for in notes as bearing S. 45° E. and S. 45° W.
              Thence from the 1/4 sec. corner I run
              S. 0°36' E. on true retracement line between south halves of secs. 35 and 36, through timber, along
                  east slope of ridge.
              Begin descent, bears N. 20° E. and S. 20° W. Draw, 10 lks. wide, course N. E.; begin ascent. Top of 150-foot ascent, bears N. 60° W. and S.60°
    .50
  5.50
13.00
              Thence over bench.

Begin ascent, bears N. 60° W. and S. 60° E.

Top of 30-foot ascent, bears N. 60° W. and S. 60° E.
17.50
21.50
              Draw, 10 lks. wide, course N. E. Intersect corner of secs. 1, 2, 35 and 36.
34.00
39.46
              Thence from the 1/4 sec. corner between secs. 35
              and 36, I run
N. 0°01' W. on random retracement line.
              Intersect E. and W. sec. line 12 1ks. W. of corner of secs. 25, 26, 35 and 36, which is a granite 8x6x4 ins., marked and witnessed as described,
38.77
                  being undersize and insecurely set I replace same with Iron U. S. Forest Reserve Boundary Post No.
                 91, set 20 ins. in ground to rock, and build mound of stone, 5 ft. base, 2 ft. high, around
                  same, for corner of secs. 25, 26, 35 and 36,
                            S 25 in N. E. quadrant
S 36 in S. E. quadrant
                  T 29 S
                 S 35 in S. W. quadrant
S 26 in N. W. quadrant
RESERVE in S. W. quadrant, with 1 notch on E. and
                  S. sides, from which
Old witness tree, a pine 9 ins. diam., bears
N. 11° W., 33 lks. dist., correctly marked
                           as reported.
                       Old S. W. bearing tree being dead I take in its
                           stead a Cedar 12 ins. diam., which bears S.
                      54°15' W., 36 1ks. dist., marked RES T 29 S
R 4 E S 35 B T; also new additional trees:
A cedar, 6 ins. diam., which bears N. 78° E.,
53 1ks. dist., marked T 29 S R 4 E S 25 B T
A cedar, 10 ins. diam., bears S. 28°30' E., 56
1ks. dist., marked T 29 S R 4 E S 36 B T
              Thence from this sec. corner I run
             S. 0°09' W. on true retracement line, between north halves of secs. 35 and 36, through timber.

Draw, 10 lks. wide, course N. 70° E.

Draw, 10 lks. wide, course N. E.; begin ascent, bears N. E. and W.
10.80
13.00
22.30
              Top of 80-foot ascent, bears N. E. and S. W.;
                  thence along steep east slope of spur.
38.55
              Draw, 10 lks. wide, course N. E., begin ascent. Intersect the 1/4 sec. corner between secs. 35 and
38.77
              36, 100 ft. above draw on east slope of spur. Land, mountainous.
              Soil, rocky, trachyte boulder and sandy, 4th rate.
              Timber, pinion and cedar, small.
                                                                            August 22, 1904
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Chains.
               August 23:
               No work until p.m. on account of cloudy weather.
               From corner of secs. 25, 26, 35 and 36, previously
                   described, I run
               West on random retracement line between secs. 26
               and 35, through timber.

No trace of old 1/4 sec. corner being found I set stake for temporary 1/4 sec. corner.
40.00
              stake for temporary 1/4 sec. corner.

Intersect N. and S. sec. line 2.95 chs. south of corner of secs. 26, 27, 34 and 35, which is a granite 8x6x5 ins., which being under lawful size and insecurely set, I replace with iron U.S. Forest Reserve Boundary Post No. 92, set 24 ins. in ground, and build mound of stone, 4 ft. base 1 / 2 ft. high, around same for corner of secs. 26, 27, 34 and 35, marked:

T 29 S S 26 in N. E. quadrant

R 4 E S 35 in S. E. quadrant

S 34 in S. W. quadrant

S 27 in N. W. quadrant

RESERVE in S. E. and S. W. quadrants, with 2 notches on E. and 1 on S. sides, from which, old bearing tree
79.25
                   bearing tree
                        A pine, 15 ins. diam., bears N. 30° W., 34 lks. dist., instead of N. 77° W., 34 lks. dist.,
                            as called for in notes, marked T 29S R 4 E
                            S 27 B T
                        Old northeast bearing tree being dead and
                            fallen, I take in its stead
                        A cedar, 8 ins. diam., which bears N. 12° E.
                        56 lks. dist., marked T 29 S R 4 E S 26 B T Also additional witness tree:
                        A pinion 8 ins. diam., which bears S. 39°15' E.
                            41 1ks. dist., marked RES
                                                                            T 29 S R 4 E S 35
                            pinion, 10 ins. diam., bears S. 36°30' W., lks. dist., marked RES T 29 S R 4 E S 34
                        A pinion, 10 ins. diam.
               Thence from corner of secs. 26, 27, 34 and 35, I run
              S. 87°52' E. on true retracement line between secs.
26 and 35, through timber descending.
Draw, 5 lks. wide, course N., at base of 50-foot descent, bears N. 30° W. and S. 30° E.
  6.75
               Creek, 10 lks. wide, 8 ins. deep, course N. 30° W.,
  8.45
                  begin ascent.
16.50
               Old road, bears N. and S.
              Top of 60-foot ascent, bears N. and S. Set trachyte stone 22x14x8 ins. 15 ins. in ground for 1/4 sec. corner, marked 1/4 on N. face, from
28.75
39.62
                  which
                        A pinion, 8 ins. diam., bears N. 1ks. dist., marked 1/4 S 26 B T
                                                                   bears N. 42° W., 27
                        A pinion, 6 ins. diam., bears S. 24° W., 41
                            lks. dist., marked RES 1/4 S 35 B T
              Draw, 4 lks. wide, course N. 30° E.
Begin descent, bears N. 80° W. and S. E.
Draw, 10 lks. wide, course N. 20° E.
Flat bottom draw, 10 lks. wide, course N. 20° E.
Intersect corner of secs. 25, 26, 35 and 36 on N. E.
39.90
44.00
51.25
63:20
79.25
                  slope 150 ft. below summit.
              Land, rolling and mountainous.
Soil, rocky and gravelly, 4th rate.
              Timber, pinion and cedar.
              Employ William Brikerhoff, axeman, L. K. Willis and
                  Albern Allen being transferred as cook and teamster.
                                                                               August 24, 1904.
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August 24:
                 At corner of secs. 26, 27, 34 and 35, previously described, I set off 38°15'30" on latitude arc and 11°30'30" N. on the declination arc and at
 Chains.
                     7h02m30s a.m., l.m.t., determine meridian with solar. Magnetic declination 17°00' E.
                 Thence I run
                 West on random retracement line between secs. 27 and
                 West on random retracement line between secs. 27 at 34, through timber, over rolling rocky surface. Intersect N. and S. 1/4 sec. line 35 lks. south of the 1/4 sec. corner between secs. 27 and 34, which is a trachyte stone 8x6x4 ins., marked 1/4 on N. face, and set 2 ins. in small pile of small stones; being under lawful size I replace this corner with a trachyte stone 26x16x10 ins.,
 39.59
                     set 18 ins. in ground, marked 1/4 on N. face,
                     from which
                 A pinion, 6 ins. diam., bears N. 65° E., 45 lks. dist., marked 1/4 S 27 B T
A pinion, 6 ins. diam., bears S. 17°45' E., 13 lks. dist., marked RES 1/4 S 34 B T
Thence from the 1/4 sec. corner I run
                 S. 89°30' E., on true retracement line between east
                halves of secs. 27 and 34, through timber.
Begin descent, bears N. and S. W.
Base of 30-foot descent, bears N. and S.; thence
     .60
  6.40
                     over bench.
                 Begin descent, bears N. and S.W.
10.50
19.50
                Base of 80-foot descent, bears N. 30° E. and S. W. Old road, bears N. 30° E. and S. W.
20.50
22.50
                Dry branch, 15 lks. wide, course N. 30° E., forks
                from S. and S. W.; begin ascent.

Draw, 10 lks. wide, course N. W.

Top of 60-foot ascent, bears N. E. and S. W.

Intersect the corner of secs. 26, 27, 34 and 35.
28.50
38.00
39.59
                Thence from the 1/4 sec. corner between secs. 27 and
                    34 I run
                West on random retracement line between west halves
                     of secs. 27 and 34.
                Intersect N. and S. sec. line 105 lks. N. of corner of secs. 27, 28, 23 and 34, which is a trachyte stone 10x6x4 ins., set in small pile of stone; being defective in size I set in its stead iron U. S.
39.88
                    Forest Reserve Boundary Post No. 93, set 24 ins.
                    in ground, and build mound of stone, 4 ft. base, 1½/2 ft. high, around same for corner of secs. 27, 28, 33 and 34, marked:
T 29 S S 27 in N. E. quadrant
                   T 29 S S 27 in N. E. quadrant
R 4 E S 34 in S. E. quadrant
S 33 in S. W. quadrant
S 28 in N. W. quadrant
RESERVE in S. E., S. W. and N. W. quadrants, with
3 notches on E. and 1 on S. sides, from which
A pinion, 10 ins. diam., bears N. 33° E., 28
lks. dist., marked T 29 S R 4 E S 27 B T
A pinion, 12 ins. diam., bears S. 27°30' E., 48
lks. dist., marked RES T 29 S R 4 E S 34
                              BT
                          A pinion, 10 ins. diam., bears S. 22° W.,
                               1ks. dist., marked RES
                                                                               T 29 S R 4 E
                          A pinion, 8 ins. diam., bears N. 24°30' W.,
                                                                              T 29 S R 4 E
                              1ks. dist., marked RES
                Thence from the corner of secs. 27, 28, 33 and 34,
                    I run
                N. 88°30' E., on true retracement line between
                   secs. 27 and 34.
 1.50
                Draw, 10 1ks. wide, course N.
                Draw, 10 1ks. wide, course N. 20° E., begin ascent;
  6.65
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AQUARIUS FOREST RESERVE BOUNDARY.

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T. 29 S., R. 4 E.
                   bears N. 20° E. and S. 20° W.
Top of 50-foot gradual ascent, bears N. 80° E.
Chains
12.00
                        and S. W. on N. slope of hill.
                  North point of ridge, begin descent.
Road, bears N. E. and S. W.
Base of 80-foot descent, bears N. E. and S. W.
Intersect the 1/4 sec. corner between secs. 27 and
20.90
31.40
34.00
39.88
                   Land, mountainous and rolling.
                   Soil, rocky and sandy, 4th rate.
                   Timber, pinion and juniper, some yellow pine on
                        south side of line.
                   At corner of secs. 27, 28, 33 and 34, I set off 11°04'30" N. on declination are and at 12h02m18s
                        1.m.t., observe sun on meridian and obtain reading of 38°15'30" on latitude arc.
                   Thence from this corner, which is previously described I run
                   North 0°02' W. on random retracement line between
                   secs. 27 and 28, through timber.

Intersect E. and W. 1/4 sec. line 59 lks. W. of the 1/4 sec. corner between secs. 27 and 28, which is
40.42
                       a trachyte stone 12x8x6 ins., set on top of ground in small pile of stone. I set in its stead a trachyte 26x14x10 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on W. face, from
                       which
                              A pinion, 6 ins. diam.,
                                                                                     bears N. 61° W., 55
                  A pinion, 6 ins. diam., bears N. 61° W., 55 lks. dist., marked RES 1/4 S 28 B T
A pinion, 6 ins. diam., bears N. 47° E., 62 lks. dist., marked 1/4 S 27 B T
Thence from the 1/4 sec. corner I run
S. 0°48' W. on true retracement line between south halves of secs. 27 and 28, through timber descending
                       ing.
aw, 15 lks. wide, course N. 80° E., base of 80-foot descent, begin ascent.
  8.40
                  Draw, 10 lks. wide, course N. 20° E.
Same draw, course N. 20° W.
Same draw, course N. 20° E.
Intersect corner of secs. 27, 28, 33 and 34 on N.
slope 150 ft. above draw at 8.40.
12.00
20.10
23.40
40.42
                   Thence from 1/4 sec. corner between secs. 27 and 28
                        I run
                  North 0°02' W. on random tetracement line between north halves of secs. 27 and 28.

Intersect E. and W. sec. line 12 lks. W. of corner of secs. 21, 22, 27 and 28, which is a trachyte 8x6x5 ins., properly marked, but set on top of
39.59
                       ground in small pile of stone; being defective corner I replace it with iron U. S. Forest Reserve Boundary Post No. 94, set 24 ins. in ground and build mound of stone, 4 ft. base, 2 ft. high, around same for corner of secs. 21, 22, 27 and 28,
                       marked
                       T 29 S
                                     S 22 in N. E. quadrant
S 27 in S. E. quadrant
                       R 4-E
                      S 28 in S. W. quadrant
S 21 in N. W. quadrant
RESERVE in S. W. quadrant, with 3 notches on
E. and 2 on S. sides, from which
A pinion, 6 ins. diam., bears N. 10°15' E.
229 lks. dist., marked T 29 S R 4 E S 2
                              A cedar, 14 ins. diam., bears S. 39° E., 23 lks. dist., marked T 29 S R 4 E S 27 B T A pinion, 8 ins. diam., bears S. 79°45' W.,
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Chains.
                               234 lks. dist., marked RES T 29 S
                               S 28 B T
                 A pinion, 12 ins. diam., bears N. 21° W., 180 lks. dist., marked T 29 S R 4 E S 21 B T Thence from corner of secs. 21, 22, 27 and 28, I run S. 0°08' W. on true retracement line between secs.
                27 and 28, through timbered flat.
Draw, 5 lks. wide, course E.
Draw, 15 lks. wide, course E.
Begin ascent, bears E. and W.
Top of 80-foot ascent, bears E. and W.
   4.20
 11.15
 15.10
 24.60
                Draw, 10 lks. wide, course N. 60° E.
Begin descent, bears E. and W.
Intersect the 1/4 sec. corner between secs. 27 and
28, 30 feet below last summit.
Cloudy after 3.30 p/m., no work.
 31.60
 37.50
39.59
                                                                                       August 24, 1904.
                    Igust 25: At corner of secs. 21, 22, 27 and 28, I set off 38°16'30" on latitude are and 10°49'30" N. on declination are, and at 7^{h}02^{m} a.m., l.m.t., establish meridian with solar.
              August 25:
                 Thence I run
                 West on random retracement line between secs. 21
                     and 28 over nearly level flat, through scattering
                     timber.
                Intersect N. and S. 1/4 sec. line 6 lks. N. of 1/4
40.16
                    sec. corner, which is a trachyte 10x6x5 ins., set on top of ground in small stone pile; being defective I set in its stead a trachyte 24x12x5
                    ins., 16 ins. in ground for 1/4 sec. corner, marked 1/4 on N. face, from which

A pinion, 10 ins. diam., bears N. 1°30' E., 115 lks. dist., marked 1/4 S 21 B T

A pinion, 14 ins. diam., bears S. 13° E., 5 lks. dist., marked RES 1/4 S 28 B T
                                                                                               13° E., 56
                Thence I run
N. 89°55' E., on true retracement line between east halves of secs. 21 and 28, over level ground, through scattering timber.
                Leave flat, begin gradual ascent, bears N. 60° E. and S. 60° W.
  1.70
  3.00
                 Top of 20-foot ridge, bears N. 60° E. and S. 60° W.
                Base of ridge, reenter flat, bears N. 60° E. end
  5.20
                    S. 60° W.
                Road, bears N. 60° W. and S. 60° E.
Pole fence, bears N. 10° E. and S. 10° W.
Same road, bears N. 80° E. and S. 80° W.
Intersect corner of secs. 21, 22, 27 and 28.
10.70
15.20
34.00
40.16
                Thence from 1/4 sec. corner between secs. 21 and 28
                    I run
                West on random line between west halves of sees.
                     21 and 28.
37.10
                Intersect N. end S. sec. line 2.00 chs. south of
                    corner to sees. 20, 21, 28 and 29, which is a limestone rock 28x16x1 ins. lying on top of ground
                    in small pile of stone; being defective in thick-
                    ness, I replace same with iron U. S. Forest Re-
                   serve Boundary Post No. 95, set 30 ins. in ground, and build mound of stone 3^1/2 ft. base, 1^1/2 ft. high, around same for corner of secs. 20, 21, 28
                    and 29, marked:
                    T 29 S S 21 in N. E. quadrant R 4 E S 28 in S. E. quadrant
                   S 29 in S. W. quadrant
S 20 in N. W. quadrant
RESERVE in N.W., S.W. and S.E. quadrants, with
4 notches on E. and 2 on S. sides, from which
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WOON A JEE

AQUARIUS FOREST RESERVE BOUNDARY.

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A pinion, 8 ins. diam., bears N. 13° E., 26 lks. dist., marked T 29 S R 4 E S 21 B T A pinion, 8 ins. diam., bears S. 58°45' E., 18 lks. dist., marked RES T 29 S R 4 E
Chains.
                             S 28 B T
                         A pinion, 8 ins. diam., bears S. 82° W., 21 lkg. dist., marked RES T 29 S R 4 E S
                         A pinion, 10 ins. diam., bears N. 66°30' W., 57 lks. dist., marked RES T 29 S R 4 E S 20 B T
               Thence I run
S. 86°54° E. on true retracement line between
               Thence I
               secs. 21 and 28, through timber, descending. Base of 30-foot descent; enter open flat, scatter-
 2.00
                   ing timber, bears N. and S.
               Draw, 5 lks. wide, course N. 70° E.
Draw, 10 lks. wide, course N. 70° E.
Old road, bears N. 60° E. and S. 60° W.
Intersect the 1/4 sec. corner between secs. 21 and
13.30
23.00
33.00
37.10
                Land, level and rolling.
               Soil, sandy, 4th rate.
Timber, scattering pinion-pine and cedar.
Cloudy weather prevents work in p.m.
                Local attraction on this mile.
                                                                                    August 25, 1904
               August 26: At corner of secs. 20, 21, 28 and 29, I set off 38°16'30" on latitude arc and 10°28'45" N. on the declination arc and at 7h01m458 a.m.,
                                               establish meridian with solar.
                   1.m.t., and
               Thence I run N. 0°02' W. on random retracement line between
                    secs. 20 and 21.
                Intersect E. and W. 1/4 sec. line 18 lks. east of
                  ntersect E. and W. 1/4 sec. line 18 1ks. east of 1/4 sec. corner between secs. 20 and 21, which is a limestone 12x10x4 ins. on top of ground in small pile of stone; being defective in size and insecurely set, I replace with a limestone 24x14x4 ins., 16 ins. in ground, for 1/4 sec. corner, marked 1/4 on W. face, from which A pinion, 12 ins. diam., bears S. 63°45' E., 174 1ks. dist., marked 1/4 S 21 B T A pinion, 12 ins. diam., bears N. 46° W., 125 1ks. dist., marked RES 1/4 S 20 B T hence I run
40.30
                Thence I run
S. 0°17' E. on true retracement line between
                    south halves of secs. 20 and 21, through scat-
                    tering timber.
                Begin descent, bears N. E. and S. 80° W.
  7.00
                Base of 30-foot descent, leave scattering timber, enter open flat.
  9.30
               Enter cultivated wheatfield, bears N. 80° E. 10.00 chs., then S., and S. 80° W. 2.00 chs.; then S. Leave cultivated ground, bears N. 80° E. and S. 80° W.; enter open flat.

Draw 12 35c wide 30° ft bears N. 80° E.
13.15
16.40
                Draw, 12 lks. wide, 10 ft. banks, course N. E.; some water in head of draw, taken N. across flat
22.00
                for irrigating field.

Leave flat, begin ascent, enter timber, bears N.E. and S. 20° W.
23.80
                Top of 90-foot ascent, bears N. E. and S. W.
30.50
                Begin descent, bears N. E. and S. 20° W.
35.00
                Intersect corner of secs. 20, 21, 28 and 29.
40.30
                Thence from 1/4 sec. corner between secs. 20 and
                    21 I run
                N. 0°02' W. on random retracement line between
```

```
north halves of secs. 20 and 21.
Chains!
             Intersect E. and W. sec. line 287 lks. east of corner of secs. 16, 17, 20 and 21, which is a sandstone 12x10x6 ins., set on solid rock in mound of stone, correctly marked and witnessed
38.38
                      A pine, 12 ins. diam., which bears S. 60° W., 85 lks. dist., instead of S. 85° W., 60 lks. dist., as reported, and is correctly marked T 29 S R 4 E S 20 B T. I add RES above
                      the other markings., and take following bearing trees additional:
A pinion, 10 ins. diam., bears N. 52°30' E.,
84 lks. dist., marked T 29 S R 4 E S 16 B T
                      A pinion, 10 ins. diam., bears S. 39° E., 102 lks. dist., marked T 29 S R 4 E S 21 B T
             A yellow pine, 12 ins. diam., bears N. 48° W., 78 lks. dist., marked T 29 S R 4 E S 17 B ! 5 lks. south of this corner I set iron U. S. Forest Reserve Boundary Post No. 96 on solid sandstone bare rock and build mound of stone, 8 ft. base,
                 4 ft. high, around same for witness corner to
                 corner of secs. 16, 17, 20 and 21, marked T 29 S S 16 in N. E. quadrant R 4 E S 21 in S. E. quadrant
                 S 20 in S. W. quadrant
S 17 in N. W. quadrant
W C on top of cap
                 RESERVE in S. W. quadrant, with 4 notches on
                 E. and 3 on S. sides.
              Thence from true corner I run
             S. 4°17' E. on true retracement line between secs. 20 and 21.
             Draw, 10 1ks. wide, course N. 20° E.; begin abrupt
 8.00
                 ascent over nearly bare rock surface of peculiar
                 appearance and is apparently gypsum, partially,
                 covered with travertim or volcanic glass.
 9.00
             Side hill draw, course W.
             Top of 350-foot ascent, bears N. E. and W. Begin descent, bears E. and W. Draw, 5 lks. wide, course S. 30° E., at base of 100-foot descent.
25.40
26.00
33.00
              Intersect the 1/4 sec. corner between secs. 20 and
38.38
              Land, mountainous and level.
              Soil, sandy, 3rd rate and rocky and bare rock,
                 4th rate.
              Timber, pinion-pine and cedar.
             At corner of secs. 16, 17, 20 and 21, I set off
                 10°23' N. on the declination are and at 12h01m468
                 1.m.t., observe sun on meridian and obtain a reading of 38°17'15" on latitude arc.
              Thence from this corner I run
              West on random retracement line between secs. 17
```

40.07

Thence from this corner I run
West on random retracement line between secs. 17
and 20.

Intersect N. and S. 1/4 sec. line 40 lks. N. of
1/4 sec. corner between secs. 17 and 20, which is
a trachyte stone 6x5x4 ins. on top of ground in
small pile of stone; being defective in size I
replace same with limestone 22x10x3 ins., set 15
ins. in ground for 1/4 sec. corner, marked 1/4
on N. face, from which old bearing tree
A pine, 8 ins. diam., bears N. 72°30' W., 46
lks. dist., instead of N. 65° W., 46 lks.,
as called for in notes of General Land Office,
correctly marked. I take as additional witness tree

```
A pinion, 10 ins. diam., which lears S. So W., 235 lks. dist., marked RES & S CO B T
Chains.
               Thence from this 1/4 sec. corner I run
               M. 89°26' E. on true retracement line between east
                   halves of secs. 17 and 20, through timbered flut.
               Draw, 5 lks. wide, course N. Draw, 8 lks. wide, course Dr.; leave flat, begin
  1.70
  3.30
                   gradual ascent.
               Road on top of 20-foot ridge, bears N. and S.
  8.00
               Remnter flat at E. base of low ridge, bears K. and E. Teasdale Creek, 6 lks. wide, 8 ins. deep, slightly
10.00
15.00
               maline water, course N. Road, bears N. and S.
16.90
17.50
               Begin abrupt ascent over bare gypsum ridge, bears
                   H. and S.
25.50
               Top of 250-foot ascent on N. point of bare ridge,
                   begin abrupt descent.
               Base of 300-foot descent, bears N. W. and S. E. Draw, 8 lks. wide, course N. E. Intersect corner of secs. 16, 17, 20 and 21.
35.50
37.00
40.07
               Rain prevents further work.
                   August 26, 1904. gust 27: At the 1 sec. corner between secs. 17 and 20, I set off 38°17'15" on latitude arc and
               August 27:
                   10°07'45" N. on declination are, and establish meridian with solar at 7h01m30° a.m., l.m.t.
               Thence I run
               West on random retracement line between secs. 17 and
39.60
               Intersect N.and S.sec. line 383 lks. S.of corner of
                   secs. 17,18,19 and 20, which is a trachyte stone
               12x12x8 ins. above ground, and correctly marked. Thence from true corner of secs. 17, 18, 19 and 20, I run S. 84°29' E. on true retracement line, between secs. 17 and 20 over timbered bench.
               I set iron U.S. forest Reserve Boundary Post No. 97, 24 ins. in ground, for W.C. to corner of secs. 17,
    .04
                  24 ins. in ground, for w.c. to corner of secs. 1.,
18,19 and 20, marked
W C on top of cap
T 29 S S 17 in F. E. quadrant
R 4 E S 20 in S. E. quadrant
S 19 in S. W. quadrant
S 18 in H. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 5 noteles
on F and 5 on S. faces: from the true corner
                   on E. and 3 on S. faces; from the true corner
                        A pinion, 12 ins. diam., bears H. 40°15' E., 36 lks. dist., I mark T 29 S R 4 E S 17 B T lks. dist., marked RES T 29 S R 4 E S 20 B T lks. dist., marked RES T 29 S R 4 E S 20 B T lks. dist., marked RES T 29 S R 4 E S 19 B T lks. dist., marked RES T 29 S R 4 E S 19 B T lks. dist., marked RES T 29 S R 4 E S 19 B T lks. dist., marked RES T 29 S R 4 E S 19 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks. dist., marked T 29 S R 4 E S 18 B T lks.
               Begin abrupt descent over nearly bare rock surface,
 3.00
               bears N.20° E. and S. 20° W.
Wash, 10 lks. wide, course S. 80° E., at base of 350-foot descent, bears N. 20° E. and S. 30° E.
Draw, 10 lks. wide, course N. E.
Intersect the 1 sec. corner between secs. 17 and 20.
19.30
27.00
39.78
               Land, rolling and precipitous.
                          sandy and rocky bare shale rock, 4th rate.
               Timbér, pinion pine and cedar.
               From corner of secs. 17, 18, 19 and 20 previously described, I run
               West on random retracement line between secs. 18
                   and 19, through timber ascending.
               No trace of 2 sec. corner and no chopping or blazing
40.00
                   found on line, set temporary stake and continue W.
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AQUARIUS FOREST RESERVE BOUNDARY.

T. 29. S., R. 4 E.

Chains 80.20

Intersect R. and S. range line 91 lks. N. of corner of secs. 13, 18, 19 and 24, which is a trachyte stone 10x6x4 ins. on top of ground in small pile of stone and witnessed by

A pine, 12 ins. diam., bears N. 20° W., 55 lks. dist., instead of N. 85° W., 55 lks., as reported in notes of General Land Office, correctly marked.

correctly marked.

This corner being defective in size and insecurely set, I replace same with iron U. S. Forest Reserve Boundary Post No. 98, set 30 ins. in ground and wrect mound of stone, 4 ft. base, 1 ft. high, around same for corner of secs. 18 and 19.

Chains

40.30

54.00

57.00

59.00

80.20

marked T. 29 S S 18 in N. E. quadrant R 4 E S 19 in S. E. quadrant

RESERVE in S. E. quadrant, with 3 notches on N. and S. faces, from which A pinion, 10 ins. diam., bears N. 32°30' E., 46 lks. dist., marked T 29 S R 4 E S 18

A pinion, 10 ins. diam., bears S. 83° E., 82 lks. dist., marked RES T 29 S R 4 E S 19

Chop out markings on old N. W. bearing tree, making corner common to secs. 18 and 19 only.

Thence from this corner I run

N. 89°21' E. on true retracement line between secs. 18 and 19, through scattering timber, over partially bare rock surface, ascending abruptly, bears N. and S.

Note; Length of mile reported 80.40 found 80.20. Maintaining original proportion gives 40.30 and 39.90 for lengths of west and east halves, respectively.

Set trachyte stone 18x10x8 ins., 12 ins. in ground for 1/4 sec. corner, marked 1/4 on N. face, from which

A cedar, 10 ins. diam., bears N. 1ks. dist., marked 1/4 S 18 B T bears N. 48° W., 26

A pinion, 12 ins. diam., bears S. 25° W., 29 lks. dist., marked RES 1/4 S 19 B T
Top of 450 ft. ascent on timbered mountain, bears

Head of draw, course S.

Begin descent, bears N. and S.

Intersect corner of secs. 17, 18, 19 and 20, which is 300 ft. below summit of mountain.

Land, mountainous. Soil, rocky and bare rock, 4th rate.

Timber, small pinion-pine and cedar. Too cloudy for noon observation.

August 27, 1904.

GENERAL DESCRIPTION.

T. 29 S., R. 4 E., is mountainous in S. W. portion, the reserve line running well up on foot hills and this portion of township is timbered with cedar and pinion-pine. It is traversed by Teasdale Creek in western portion and another creek in south central portion, draining to N. E. into Fremont Creek or Dirty Devil River, which latter traverses the northwest and central eastern portions of township. The valley of this river is settled up. Town of Teasdale, a settlement of three or four hundred people, lies in secs. 16 and 15. Formation is sandstone with large quantities of gypsum on surface, especially in sec. 20. Mandagnetic declination 16°50' E.

T. 29 S., R. 3 E.

August 29: The corner of secs. 14, 15, 22 and 23 is a mound of stone with stake in center and is said to be original position of corner by oldest settlers.

In order to verify the position I run N. 0°01' W. between secs. 14 and 15 on blank retracement line.

Intersect E. and W. sec. line 25 lks. west of corner of secs. 10, 11, 14 and 15, which is a

79.66

75 OZ.

AQUARIUS FOREST RESERVE BOUNDARY.

T. 29 S., R. 3 E.

```
Chains.
                     trachyte stone 18x10x6 ins., set in mound of
                     stone and marked with 2 notches on E. and im-
                 properly with 2 on S. faces. Thence on true line I run
                S. 0°10' W., between secs. 14 and 15. Road, bears N. E. and S. W. Fence, bears N. E. and S. W., enter meadow.
16.65
16.70
33.00
                 Pine Creek, course N. E.
39.53
                 Fence E. and W.; no trace of old 1/4 sec. corner.
40.50
                Road bears E. and W.
                 Irrigation ditch, course N. E.
Intersect corner of secs. 14, 15, 22 and 23, at
which point, I set a trachyte 28x16x12 ins. 6 ins
in ground to solid rock and build mound of stone
51.00
79.66
                     around same for corner of secs. 14, 15, 22 and 23, marked with 2 notches on E. and 3 on S. faces,
                     from which
                            A pinion, 10 ins. diam., bears N. 43°30' W. 129 lks. dist., marked T 29 S R 3 E S 1
                            No other trees available; pits impracticable.
                 Land, rolling and level.
                 Soil, rocky and marshy, 3rd and 4th rate.
                 Timber, none.
                 Cloudy after 10 a.m.; no further work.
                                                                                            August 29, 1904.
                 August 30: As no trace of the 1/4 sec. corner between secs. 13 and 14 can be found, at corner
                     of secs. 11, 12, 13 and 14, I set off on latitude arc 38°18' and on declination arc 9°04' Na and at 7h00m30s a.m., l.m.t., establish meridian
                     with solar.
                 Thence from corner of secs. 11, 12, 13 and 14, which is trachyte boulder in place 27/2x2x1 ft. marked as described in notes of General Land
                 marked as described in notes of General Land
Office; 3 ft. west of corner I build witness
mound of stone, 3 /2 ft. base, 2 ft. high.
I run S. 0°01' E. on true line between secs. 13 and
14, over rocky prairie land ascending.
Top of 100-foot ascent, bears N. 70° E. and S.70°W.
Old Blackhawk Indian Fort, which is wall of rock
200 x 100 ft., bears W. 5.00 chs. dist., on summit of N. end of ridge.
Begin ascent, bears N. E. and S. W.
  5.50
  7.50
                 mit of N. end of ridge.
Begin ascent, bears N. E. and S. W.
Top of 150-foot ascent, bears N. 30° E. and S.70°W.
No trace of old corner being found I set trachyte
18x14x12 ins., 12 ins. in ground, for 1/4 sec.
corner, marked 1/4 on W. face, from which
A pinion, 10 ins. diam., bears S. 15°15' E.,
246 lks. dist., marked 1/4 S 13 B T
A pinion, 12 ins. diam., bears N. 68° W., 287
lks. dist., marked 1/4 S 14 B T
Draw, 5 lks. wide, course N. W.
15.00
35.00
40.00
                 Draw, 5 lks. wide, course N. W.
Draw, 5 lks. wide, course N. 80° W.
Leave prairie, enter scattering timber, bears E.
and W.
53.25
 69.00
 70.00
                 Set stake for temporary corner of secs. 13, 14, 23, and 24 until after E. and W. line is run, after
80.00
                      which
                  Is at corner of secs. 13, 14, 23 and 24, as des-
 79.50
                      cribed on page
                 From corner of secs. 14, 15, 22 and 23, previously described, I run
                 East on random line between secs. 14 and 23 and
                      13 and 24.
                  Set stake for temporary 1/4 corner.
 40.00
                  Intersect N. and S. sec. line 50 lks. N. of stake
 80.20
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set for temporary corner on line south between

```
Chains
                 secs. 13 and 14, to which point I move stake and
                 leave same for temporary corner of secs. 13, 14,
                 23 and 24.
              Set stake for temporary 1/4 sec. corner between secs. 13 and 24.
120.20
              Intersect east boundary of township 127 lks. south of corner of secs. 18 and 19, and as return bearing would deviate from west more than 21' of arc, I
160.41
                 set at this point a limestone 20x14x8 ins.,
                 ins. in ground, for C. C. of secs. 13 and 24, marked C C on W. face, with 3 notches on N. and
                 S. faces, from which
                     A pinion, 10 ins. diam., bears N. 76°30' W., 52 lks. dist., marked C C T 29 S R 3 E S 13 B T
                     A pinion, 12 ins. diam., bears S. 85°30' W., 85 lks. dist., marked RES CC T 29 S R 3 E S 24 B T
              Mound of stone, 4 ft. base, 3 ft. high, W. of cor-
              Thence from C C of secs. 13 and 24, I run
              West on true line between secs. 13 and 24, through
              scattering timber, descending. Base of 150 ft. descent, bears N. and S. E.
 8.20
              Brook, 2 lks. wide, 2 ins. deep, gypsum water,
11.50
                 course N. 20° W.
15.20
              Government Creek, 20 lks. wide, 15 ft. banks,
                 stream fresh water, 4 lks. wide, 3 ins. deep,
                 course N.
17.00
              Begin ascent, bears N. and S. over bare gypsum
                 hill.
24.00
              Top of 80-foot ascent, bears N. and S.
27.10
              Wash, 5 lks. wide, course S. W.
36.00
              Base of 80-foot descent, bears N. and S.
38.10
              Dry Branch, 10 1ks. wide, 20-foot banks, course
                 N. 20° W.
40.10
              Set trachyte stone 22x16x3 ins., 18 ins. in ground for 1/4 sec. corner, marked 1/4 on N. face, from
                 which
                      A pinion, 24 ins. diam., bears S. 39° W., 289 lks. dist., marked RES 1/4 S 24 B T
                      No other trees available; I dig pits 18x18x12
                         ins. E. and. W. of corner, 3 ft. dist., and raise mound of earth, 31/2 ft. base, 11/2 ft. high, N. of corner.
44.60
              Draw, 5 lks. wide, course N., timber becomes more
                 dense.
              Draw, 10 lks. wide, course N. 20° E. Begin ascent, bears N. and S. 30° W.
50.30
51.00
             Top of 200-foot ascent, bears N. and S. Old road, bears N. and S. in open flat. At point of intersection with true line south between
60.20
71.00
 80.21
                 secs. 13 and 14, I set iron U. S. Forest Reserve Boundary Post No. 99, 30 ins. in ground, and build mound of stone 31/2 ft. base, 1 ft. high, around same for corner of secs. 13, 14, 23 and 24,
                 marked
                 T 29 S S 13 in N. E. quadrant R 3 E S 24 in S. E. quadrant
                S 23 in S. W. quadrant
S 14 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 1
                 notch on E. and 3 on S. sides, from which
                     lks. dist., marked T 29 S R 3 E S 13 B T A pinion, 12 ins. diam., bears S. 24°45' E., 39 lks. dist., marked RES T 29 S R 3 E S 24 B T
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Chains.
                     A cedar, 14 ins. diam., bears S. 6°45' W.,
                        lks. dist., marked RÉS T 29 S R 3 E S 23
                     A cedar, 14 ins. diam., bears N. 39°45' W., 4 lks. dist., marked T 29 S R 3 E S 14 B T
                     Making length of line between secs. 13 and 14
                        79.50 chs.
             Land, mountainous and rolling.
             Soil, rocky, boulders, sandy and bare rock, 4th
                rate.
             Timber, pinion pine and cedar.
             At corner of secs. 13, 14, 23 and 24, I set off 8°58' N. on declination are and at 12h00m36s
                1.m.t., observe sun on meridian and obtain reading of 38°17' 50n latitude arc.
             Fromcorner of secs. 13, 14, 23 and 24 previously
             described I run West on true line between secs. 14 and 23, through
                scattering timber, over rolling stony land.
             Leave scattering timber, enter prairie, with occasional tree, bears N. E. and S. W.
10.00
21.50
             Begin descent, bears N. and S.
             Base of 150-foot descent, at: draw 15 lks. wide, course N. 20° W.; old road in bed of draw; begin ascent, bears N. 20° W. and S. 20° E.

Set trachyte stone 24x14x8 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, from
37.80
40.10
                which
                     A pinion, 26 ins. diam., bears N. 83° E., 169 lks. dist., marked 1/4 S 14 B T Noother trees available. I build mound of atone 31/2 ft. base, 2 ft. high, 3 ft. N.
                of corner.
 49.70
             Top of 150-foot ascent, bears N. 80° W. and
                S. 30° E.
             Begin descent, bears N. and S.
Intersect corner of secs. 14, 15, 22 and 23.
Land, hilly and rolling, covered with trachyte boul-
50.20
                ders.
             Soil, rocky and sandy, 4th rate.
             Timber, scattering pinion and cedar.
Corner falls near base of descent, 200 ft. below
                summit.
                                                                    August 30. 1904.
             August 31:
                                From corner of secs. 14, 15, 22 and
             23, previously described. I run
West on random retracement line between secs. 15
                and 22.
40.00
             No trace of old 1/4 corner being found, I set
             stake for temporary 1/4 corner.
No trace of old sec. corner being found, I set stake for temporary corner of secs. 15, 16, 21
80.00
                and 22.
             As no evidence exists of the original position
                of this corner and as only the lines north and
                east from here are reported surveyed, I proceed to corner of secs. 9, 10, 15 and 16, which is a trachyte stone 8x6x5 ins. above ground, marked
             3 on east and improperly 2 on south. From this corner I run
             S. 0°10' W. between secs. 15 and 16, parallel to
                east boundary of sec. 15.
             No trace of old 1/4 sec. corner.
40.00
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Intersect E. and W. line 40 lks. east of temporary stake, at which intersection I set iron U. S.

78.57

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Forest Reserve Boundary Post No. 101, 28 ins. in ground, and erect mound of stone, 3 ft. base, 11/2 ft. high around same for corner of secs.
Chains
                 15, 16, 21 and 22, marked
T 29 S S 15 in N. E. quadrant
                  R 3 E S 22 in S. E. quadrant
                 S 21 in S. W. quadrant
S 16 in N. W. quadrant
RESERVE in S. E. quadrant, with 3 notches on
S. and E. sides; 6 ft. west of corner I erect
mound of stone, 4 ft. base, 3 ft. high; pits
                  impracticable.
              Thence from this corner I run
              East on true line between secs. 15 and 22, over
              rolling, rocky prairie.

Draw, 8 lks. wide, course S. E.

Flat bottom draw, 15 lks. wide, cour
Road in draw bears N. E. and S. W.
 9.00
28.60
                                                                       course N. E.
30.00
              Fence, bears N. E. and S. W.; leave prairie, enter
                  field.
              Irrigation ditch, course N. E. Irrigation ditch, course N. L.
30.20
32.60
              Set trachyte stone 22x12x6 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, and
39.80
              3 ft. north of corner raise mound of stone, 3 ft. base, 21/2 ft. high; pits impracticable. Corner of fence running N. and E., bears N., 34 lks. dist.
40.05
45.20
               Pine creck, 10 1ks. wide, 6 ins. deep, course
                  N. 20° E.
45.30
               Fence, bears N. and S.
              Irrigation ditch, course N.
Fence, course R. 30 E. and S. 20° E. 10 lks. N.
Fence joins from W.; leave field, enter prairie.
Read bears N. 30° E. and S. 20° E., around foot-
51.70
64.67
65.60
                  hills: begin gradual ascent.
               Irrigation ditch, course N. 20
67.70
              Prew, 16 lks. wide, course R. W.

10 lks. west of this corner I set U. S. Forest
Reserve Roundary Post No. 100, 24 ins. in ground,
and build mound of stone, 4 ft. base, 11/2 ft.
high, around same for witness corner to corner
of secs. 14, 15, 22 and 23, marked
W. C. on top of cap
T 29 S S 14 in N. E. quadrant
73.10
79.50
                  T 29 S S 14 in N. E. quadrant R 3 E S 23 in S. E. quadrant
                  S 22 in S. W. quadrant S 15 in N. W. quadrant RESERVE in S. E. and
                                           E. and S. W. quadrants, with 2
                  notches on E. and 3 on S. sides.
               Intersect corner of secs. 14, 15, 22 and 23, 50 ft.
79.60
                   sbove road.
               Land, rolling and level.
               Soil, sandy loam and rocky, 3rd and 4th rate.
               No timber.
               No work after 9.30 a.m. on account of rain and
                   cloudy weather.
                                                                              August 31, 1904.
               September 1: At cornor of sees. 4, 5, 32 and 33, Tps. 29 and 30 S., R. 3 E., which is a trachyte
                   stone 10x10x10 ins. above ground, firmly set
                   and marked correctly and witnessed by mound of
                   stone on W., as described in notes furnished by
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and marked correctly and witnessed by mound of stone on W., as described in notes furnished by Surveyor General of Utah.

I set off 38°14'45" on latitude are and 8°20'45" N. on the declination are and at 7h a.m., l.m.t., establish meridian with solar.

Thence from true corner I run

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N. 0°02' W. on true line between secs. 32 and 33, over level bottom land, covered with sage brush.
 Chains
     . 05
               I set iron U. S. Forest Reserve Boundary Post No.
                        , 30 ins. in ground, and raise mound of stone to Base, 1 ft. high, around same for witness ner to corner of secs. 4, 5, 32 and 33, marked
                  105.
                  3 ft. Base,
                  corner
                  W C on top of cap
                            S 33 in N. E. quadrant
S 4 in S. E. quadrant
                  T 29 S
                  T 30 S S 5 in S. W. quadrant
                 S 32 in N. W. quadrant
RESERVE in N.E., S.E. and S.W. quadrants, with
4 notches on E. and 2 on W. faces.
  2.00
              Leave bottom land; begin ascent, bears N. W. and
                  S. E.
  6.00
              Top of 50-foot ascent, bears N. W. and S. E.; thence
                  over rolling prairie land dotted with occasional
                  cedar and pinion bushes.
 30.00
              Begin gradual descent, bears N. W. and S. E.
              Draw, 5 lks. wide, course N. W.
Set trachyte stone 20x14x8 ins., 15 ins. in ground,
for 1/4 sec. corner, marked 1/4 on W. face, from
 37.00
40.00
                  which
              A pinion, 12 ins diam., bears N. 65° E., 154
lks. dist., marked RES 1/4 S 33 B T
A pinion, 10 ins diam., bears S. 79°15' W.,
15 lks. dist., marked 1/4 S 32 B T
Base of 50-foot descent; draw, 8 lks wide, course
42.80
                  R. E.
              Draw, 10 lks. wide, course N. 60° W.; begin ascent. Top of 60-foot ascent on W. slope of hill. Begin descent, bears N. 70° E. and S. 70° W.
 53.20
60.00
63.00
              Base of 100-foot descent at draw, 5 lks. wide,
69.60
              course N. E.; thence across level bonch.
Set iron U. S. Forest Reserve Boundary Post No.
80.00
                 30 ins. in ground, and raise mound of stone 32 ft. base, 1 ft. high, around same, for corner of secs. 28, 29, 32 and 33, marked T 29 S S 28 in N. E. quadrant R 3 E S 33 in S. E. quadrant
                  S 32 in S. W. quadrant
                 S 29 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 4
notches on E. and 1 on S. sides, from which
A pinion, 10 ins. diam., bears N. 50°50' E.,
136 lkg. dist., marked RES T 29 S R 3 E
                          S 28 B T
                       A pinion, 10 ins. diam., boars S. 12°15' E.,
                          297 1kg. dist., marked RES T 29 S
                                                                                       R 3 E
                          S 33 B T
                          pinion, 12 ins. diam., bears S. 35°30' lks. dist., marked T 29 S R 3 E S 32
                       A pinion,
              No other tree available. Land, rolling and hilly.
              Soil, rocky and gravelly, 4th rate.
              Timber, scattering pinion and cedar.
              From corner of secs. 28, 29, 32 and 33, I run N. 0°02' W. on true line between secs. 28 and 29,
              over level prairie bonch.
Begin abrupt descent, bears N. 80° E. and S. 80° W.
  4.90
                  down S. wall of cunyon.
              Pine crook, 15 lks. wide, 10 ins. deep, course N. 80° E., in 50-foot canyon.
   7.00
              Top of 50-foot north wall of canyon; thence over
  9.20
                  rolling prairie, with occasional minion trees.
```

35.20 Draw, 5 lks. wide, course E. 40.00 Set trachyte stone 20x12x8 ins., 15 ins. in ground

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for 1/4 sec. corner, marked 1/4 on W. face; 4 ft. west of corner raise mound of stone, 4 ft. base, 2½ ft. high; pits impracticable.

Draw, 10 lks. wide, course E.
Chains.
54.05
                Draw, 8 lks. wide, course N. 80° E. Head of flat draw, course N. E.
67.50
75.50
80.00
                Set iron U. S. Forest Reserve Boundary Post No. 103
                    30 ins. in ground, and raise mound of stone, 3 ft. base, 1 ft. high, around same for corner of secs. 20, 21, 28 and 29, marked T 29 S S 21 in N. E. quadrant
                    R 3 E S 28 in S. E. quadrant
                    S 29 in S. W. quadrant
                    S 20 in N. W. quadrant RESERVE in S. E. quadrant, with 4 notches on
                    E. and 2 on S. sides, from which A pinion, 6 ins. diam., bears N. 43°30' W., lks. dist., marked T 29 S R 3 E S 20 B
                                                                                                   S 20 B T
                          No other trees available.
                 5 ft. W. of corner raise mound of stone, 4 ft. base
                    3 ft. high.
                Land, rolling and broken.
                Soil, rocky, gravelly, 4th rate.
Timber, scattering pinion; yellow pine and fir and birch underbrush along pine creek in canyon.
                At this corner I set off 8°15' N. on declination arc and at 11<sup>h</sup>59<sup>m</sup>59<sup>s</sup> 1.m.t. observe sun on meridian and obtain a reading of 38°15'30" on latitude arc.
                From corner of secs. 20, 21, 28 and 29 I run East on random line between secs. 21 and 28,, grad-
                ually descending over rolling prairie.
Set stake for temporary 1/4 sec. corner.
Set stake for temporary corner of secs. 21, 22, 27
40.00
80.00
                     and 28.
                From corner of secs. 15, 16,21 and 22 set by Aug-
                ust 51st, I run

S. 0°02' E. on random line between secs. 21 and 22.

Set temporary stake for 1/4 sec. corner.

Intersect extension of line east between secs. 21

and 28 4.34 chs. east of stake set for temporary sec.
40.00
84.17
                     corner.
                 At which intersection I set iron U. S. Forest Re-
                     serve Boundary Post No. 102, 24 ins. in ground, and raise mound of stone, 4 ft. base, 12 ft. high, around same for corner of secs. 21, 22, 27 and
                     28, marked
                     T 29 S S 22 in N. E. quadrant R 3 E S 27 in S. E. quadrant
                     S 28 in S. W. quadrant
S 21 in N. W. quadrant
RESERVE in N. E.; S. E. and S. W. quadrants, with
3 notches on E. and 2 on S. sides, from which
A pinion, 8 ins. diam., bears S. 69°15' W., 117
lks. dist., marked RES T 29 S R 3 E S 28
                           A pinion, 8 ins. diam., bears N. 62°45' W., 192
lks. dist., marked T 29S R 3 E S 21 B T
                           No other trees available.
                 Thence from corner of secs. 21, 22, 27 and 28, I run North 0°02' W. on true line, between secs. 21 and
                     22, over rocky prairie land, descending abruptly N. W. and S. E.
                 Base of 300-foot descent, bears N. E. and S. 80° W. Pine Creek, 15 lks. wide, 10 ins. deep, course N.E.
 23.00
 24.70
```

from S. 80° W.; thence over level bottom land

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Chains.
                      covered with trachyte boulders.
   40:00
                   Set trachyte stone 26x14x10 ins., 18 ins. in
                  ground, for 1/4 sec. corner, marked 1/4 on N. face; raise mound of stone, 3 ft. base, 2½ ft. high, 4 ft. W. of corner; pits impracticable. Flat draw, 10 lks. wide, course E.
   40.10
                  Draw, 4 lks. wide, course H. E. Draw, 4 lks. wide, course E.; leave bottom land,
   43.00
   43.50
                       hegin gradual ascent, bears N. E. and S. W.
                  Old road, bears N. E. and S. W. Draw, 5 lks. wide, course S. 70° E. Top of 50-foot ridge, bears E. and W. Draw, 15 lks. wide, course N. 80° E.
   53.20
   57.40
   59.00
   80.00
                   Draw, 5 lks. wide, course S. E.
   81.90
                   Intersect corner of secs. 15, 16, 21 and 22.
   84.17
                   Land, hilly and rolling.
                   Soil, rocky and gravelly, sandy, 4th rate.
                   Timber, practically none.
                  From corner of secs. 21, 22, 27 and 28 previously
                       described I run
                   West on true line between secs. 21 and 28, over
                   hilly, rocky prairie, ascending. Top of ascent, bears N. W. and S. E., 100 ft.
     6.30
                      above sec. corner on N. end of ridge.
                  Begin descent, bears N. E. and S. W.
Top of east wall of canyon.
Pine Creek, 15 lks. wide, 10 ins. deep, course
N. E. in 80-foot wall canyon, at base of 400-
   10.30
   34.30
   40.80
                       foot descent; begin ascent.
                   Top of W. wall of canyon, continue gradual ascent,
   42.30
                       bears N. E. and S. W.
                   Set trachyte stone 26x12x8 ins., 8 ins. in ground to rock, and build mound of stone, 3½ ft. base. 1 ft. high, around same, for 1/4 sec. corner, marked 1/4 on N. face, from which
   44.34
                  marked 1/4 on N. lace, from which
A pinion, 10 ins. diam., bears N. 59° W., 81
lks. dist., marked 1/4 S 21 B T
A pinion, 12 ins. diam., bears S. 41° E., 41
lks. dist., marked RES 1/4 S 28 B T

Flat draw, 10 lks. wide, course N. E.
Intersect corner of secs. 20, 21, 28 and 29.
Land, hilly, broken and rolling.
Soil, rocky and gravelly, 4th rate.
Timber, occasional pinion, with pine and birch
   79.80
   84.34
                   Timber, occasional pinion, with pine and birch brush on Pine Creek in Canyon.
                                                                                      September 1,1904 .
```

Polaris Observation.

agrees with p.m. solar.

At corner of secs. 4, 5, 32 and 33, Tps. 29 and 30 S., R. 3 E., I set off 38°14'45" on latitude arc and 8°11'45" N. on the declination arc, and at 5 p.m., l·m.t., September 1, establish meridian with solar and mark direction thus determined by hub set 6.00 chs. N. of instrument.

I observe Polaris in accordance with Manual of Instructions at 7h47^m p.m., l·m.t. Sep. l.

U. C. Sep. 1, 14h41.4^m
Time of obs. 747
Time argument, 747
Time argument, 6h54^m

Azimuth of Polaris 1°28.3' E. of N., which angle I turn to the W. and meridian thus established

```
September 2: At 7<sup>h</sup> a.m., l.m.t., I set off 38914'45" on the latitude arc and 7°59' N. on the declination arc, and meridian thus established
Chains
                agrees with Polaris and p.m. solar meridian.
            Thence from corner of secs. 4, 5, 32 and 33, pre-
viously described I run
N. 89°58' W. on random retracement line between
                secs. 5 and 32 over bottom land covered with sage
                brush.
40.10
             Intersect N. and S. 1/4 sec. line 4 lks. S. of 1/4
                sec. corner, which is cross (X) on trachyte boul-
                der in place 3x3x2 ft. above ground, marked 1/4
                N. of cross, and witnessed by a

A Pinion, 8 ins. diam., which bears N. 32° W.,
20 lks. dist., instead of N. 62° W., 20 lks.,
as called for in notes of Surveyor General.
A pinion, 8 ins. diam., bears S. 10° E., 18
lks. dist., marked 1/4 S 5 B T, as called for
                         in notes above old marking on this tree I
                        add RES.
             Thence from the 1/4 sec. corner I run
             S. 89°55' E. on true retracement line between east
                halves of secs. 5 and 32, through scattering pin-
            ion and cedar timber, gradually descending. Road bears N. 30° W. and S. 30° E. Draw, 10 lks. wide, course N. 20° E.
 2.60
14.90
16.00
             Base of 40-foot descent; enter creek bottom and
             dense underbrush, bears N. and S. Pine Creek, 12 lks. wide, 10 ins. deep, course
20.10
                N. 20° W.
             Pine Creek, course S. 80° W.
Pine Creek, course N. 80° W.
Pine Creek, course S. 80° W.
Pine Creek, course N. 20° W.; leave dense under-
25.80
26.40
27.20
36.00
                brush along creek; enter sage brush.
40.10
             Intersect corner of secs. 4, 5, 32 and 33.
             Thence from 1/4 sec. corner between secs. 5 and
                32 I run
             N. 89°58' W. on random retracement line, between west halves of secs. 5 and 32.
             Intersect N. and S. sec. line 3 lks. N. of corner of secs. 5, 6, 31 and 32, which is a trachyte stone lOxlOx2O ins. above ground, correctly marked with 5 notches on E. and 1 on W. edges, and
40.10
                witnessed as called for in notes of Surveyor Gen-
                eral by
                     A pinion-pine, 10 ins. diam., which bears
N. 59° E., 7 lks. dist., marked T 29 S R 3 E
                         S 32 B T
                     A pinion-pine, 8 ins. diam., bears S. 26° E.,
                         119 lks. dist., marked T 30 S R 3 E
                    'A pinion-pine, 8 ins. diam., bears S. 82°30', W. 17 lks. dist., marked T 30 S R 3 E S 6 B T A pinion-pine, 6 ins. diam., bears N. 73° W., 65 lks. dist., marked T 29 S R 3 E S 31
                     Above old markings on S. E. and S. W. bearing
                        tree I add RES.
             Thence from the corner I run
             East on true retracement line between secs. 5 and
             32, over stony land, through timber, ascending. Top of ridge, bears N. and S.; begin gradual de-
  1.00
                 scent.
            Flat draw, 10 lks. wide, course N. E. Intersect the 1/4 sec. corner between secs. 5 and
33.40
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40.10

Tps. 29 and 30 S., R. 3 E.

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Chains.
                 32 150 ft. below summit of ridge.
              Land, rolling and level.
              Soil, stony, gravelly and sandy, 4th rate.
              Timber, pinion pine and cedar.
             From corner of secs. 5, 6, 31 and 32 previously
                 described I run
             N. 89°58' W. on random retracement line between
                 secs. 6 and 31, through timber descending.
             Intersect N. and S. 1/4 sec. line, 15 lks. S. of 1/4 sec. corner, which is a trachyte stone 10x8x10 ins. above ground, correctly marked 1/4 on N. and witnessed by mound of stone 2 ft. base, 1/2 ft. high N. of corner, as called for in notes of
40.03
                 Surveyor General.
              Thence from this 1/4 sec. corner I run
S. 89°45' E. on true retracement line between east
                 halves of secs. 6 and 31, over rolling stony
                 prairie land.
22.00
              Enter timber, bears N. and S.; begin descent,
                 bears II. and S.
              Draw, 10 lks. wide, course N. 20° E., base of 75-
32.60
                 foot descent; begin ascent.
39.97
              6 lks. west of this corner I set Iron U. S. Forest
                 Reserve Boundary Post No. 106, 10 ins. in ground to solid rock and masse mound of stone, 4 ft. base, 3 ft. high, around same for witness corner to corner of secs. 5, 6, 31 and 32, marked
                 W C on top of cap
                 T 29 S S 32 in N. E. quadrant
                 R 3 E S 5 in S. E. quadrant Y 30 S S 6 in S. W. quadrant
                 S 31 in N. W. quadrant, with 5 notches on E. and 1 on W. sides.
              Intersect corner of secs. 5, 6, 31 and 32 75 ft.
40.03
                 above draw.
              Thence from 1/4 sec. corner between secs. 6 and 31
                 I run
              N. 89°58' W. on random retracement line between
                 west halves of secs. 6 and 31.
              Intersect N. and S. range line ll lks. N. of corner of Tps. 29 and 30 S., Rs. 2 and 3 E., which is a trachyte stone 12x10x10 ins. above ground,
39.45
                 correctly marked with 6 notches on N., S., E., and W. edges and witnessed as called for in notes of
                  Surveyor General by
                      A pinion, 10 ins. diam., which bears N. 32°30' E. 30 lks. dist., marked T 29 S R 3 E S 31 B T A pinion, 18 ins. diam., bears S. 29° E., 39 lks. dist., marked T 30 S R 3 E S 6 B T A pinion, 12 ins. diam., bears S. 86°50' W., 33 lks. dist., marked T 30 S R 2 E S 1 B T A pinion, 8 ins. diam., bears N. 28°30' W., 54 lks. dist., marked T 29 S R 2 E S 36 B T Above old markings I add RES on the S. E. and
                      Above old markings I add RES on the S. E. and
                           s. W. bearing trees. ×
              5 lks. W. of this corner I set iron U. S. Forest
Reserve Boundary Post No. 107 10 ins. in ground
to solid rock and build mound of stone 5 ft. base
                  3 ft. high, around same for witness corner to corner of Tps. 29 and 30 S., Rs. 2 and 3 E.,
                  marked
                  W C on top of cap
                              S 31 in N. E. quadrant
                  T 29 S
                  R 3 E S 6 in S. E. quadrant
                  T 30 S S l in S. W. quadrant,
R 2 E S 36 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 6
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AQUARIUS FOREST RESERVE BOUNDARY.

Tps. 29 and 30 S., R. 3 E.

Chains.

notches on N., S., E. and W. sides. From true corner of township I run N. 89°53' E. on true retracement line, between socs. 6 and 31, over rolling stony land through timber.

Flat swail draw, course N. W.

.45 12.35

13.20 25.00

Road, bears N. and S. Thurber and Dog Lake road.
Draw, 10 lks. wide, course N.
Leave timber, enter rocky prairie, bears N. and S.
Intersect the 1/4 sec. corner between secs. 6 and 31.
Land, rolling and stony. 39.45

Soil, rocky, gravelly, 4th rate. Timber, small pinion-pine and cedar.

GENERAL DESCRIPTION.

T. 29 S., R. 3 E., is mountainous in southeast portion; rolling, stony prairie in western portion. Fremont or Dirty River runs through N. En part and valley is cultivated. Town of Thurber lies north of river about in secs. 1 and 2, and is settlement of three or four hundred people. The south-west and central portion of township is drained by Pine Crock, a clear fresh stream, average 12 lks. wide and 10 ins. deep, with narrow bottom in southwest widening into fertile bottom in secs. 22 and 15, and swampy grass land in secs. 14 and 11. southeast portion of township is timbered with small pinion-pine and codar, with some yellow pine on benches and along Pine Creek. Local attraction slight. Mean magnetic declination 16°40' E.

Tps. 29 and 30 S., R. 2 E.

From corner of Tps. 29 and 30 S., Rs. 2 and 3 E. proviously described, I run West on true line between secs. Land 36, over rolling stony land through centtering timber.

2.20 16.40

Draw in 50-foot depression, course H. Old road in bed of draw; leave timber, enter prairie.

Draw, 10 lkg. wide, in 50-foot depression, course H. 20° E.

Ewale draw, course. N. 70° E. 35.40

76.30

80.30

Set trachyte stone 24x16x12 ins., 18 inc. in ground for 1/4 sec. corner marked 1/4 on N. face, from 40.00 which

A pinion, 10 ins. diam., boars N. 76° W., 85 lks. dist., marked 1/4 S 36 B T No other trees available.

42.00

Draw, 5 lks. wide, course S. E. Fop of rocky ridge, bears H. E. and S. W. Begin rocky descent, bears N. 70° E. and S. 70° W. 56.00

58.00

Bide hill wash, 5 lks. wide, course N.
Base of 200-foot descent, bears N. 60° E. and
S. 60° W., at draw, 20 lks. wide, course N. 60° E.
True point for corner falls on unsafe ground on 79.70

80.00

bank of draw.

Bet iron U. S. Forest Reserve Boundary Post No. 108, 30 ins. in ground and build mound of stone $3\frac{1}{8}$ ft.

base, 1 ft. high, around same for witness corner to corner of secs. 1, 2, 35 and 36, marked

W C on top of cap

T 29 S S 36 in N. E. quadrant R 2 E

R 2 E S l in S. E. quadrant T 30 S S 2 in S. W. quadrant

S 35 in N. W. quadrant,

Tps. 29 and 30 S., R. & E.

```
Chains.
                 RESERVE in S. E. and S. W. quadrants, with 1 notch
                  on E. and 5 on W. sides, from which
                       A pinion-pine, 14 ins. diam., bears N. 24°30' 516 lks. dist., marked T 29 S R 2 E S 36
                       No other trees available.
              Land, hilly and rolling, stony prairie land.
              Soil, rocky and gravelly, 4th rate.
              Timber, scattering pinion-pine.
              From true point for corner of secs. 1, 2, 35 and 36, 30 lks. E. of W. C. I run West on true line between secs. 2 and 35, as-
                  cending over stony prairie land.
              Top of 300-foot ascent, bears N. and S.
20.00
28.00
              Swale draw, course S.
              Set trachyte stone 20x12x5 ins., 15 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, and witnessed by mound of stone, 5 ft. base, 2½ ft. high, N. of corner. Corner falls in head of swale which drains to south.
40.00
              Swale draw, course S. 30° E.
51.20
              Top of prairie knob.
77.00
              Set iron U. S. Forest Reserve Boundary Post No.
80.00
                  109, 26 ins. In ground and build mound of stone, 5; ft. base, 1 ft. high, around same for corner of secs. 2, 3, 34 and 35, marked T 29 S S 35 in N. R. quadrant
                  R 2 E S 2 in S. E. quadrant T 50 S S 3 in S. 7. quadrant
                 T 50 S S 3 In S. W. quadrant
S 34 in N. W. quadrant
RECERVE in S. E. and S. W. quadrants, with 2
notches on E. and 4 on W. sides; 5 lks. W. of corner I build nound of stone, 5 ft. base, 3 ft.
hligh; pits impracticable.
            Land, hilly and rolling
              Soil, stony and gravelly, 4th rate.
              No timber.
                                                                             Septembor 2, 1904.
              September 3:
At corner of sees. 2, 3, 34 and 35, I set off
38°14'45" on latitude are and 7°37' N. on declin-
                  ation are and at 7 o'clock a.m., 1.m.t., estab-
                  ligh meridian with solar.
              Thence I run
              West on true line between sees. 3 and 34, over
                  rolling stony prairie land.
              Set trachyte boulder 18x10x8 ins., 12 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, and raise mound of stone, 5 ft. base, 2 ft. high, N. of corner.

Road bears N. 20° E. and S. 20° W.
40.00
59.00
               Set iron U. S. Forest Reserve Boundary Post No. 110,
80.00
                  24 ins. in ground, and build mound of stone, 3\frac{1}{3} ft. base, 1\frac{1}{3} ft. high, around same for corner of secs. 3, 4, 33 and 34, marked T 29 S S 34 in N. E. quadrant R 2 E S 3 in S. E. quadrant T 30 S S 4 in S: W. quadrant
                  5 33 in N. W. quadrant, with 3 notches on E. and W. sides. and raise mound of stone, 4 ft. base,
                  3 ft. high, W. of corner.
               Land, rolling and stony.
               Soil, rocky and gravelly, 4th rate.
               No timber.
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Tps. 29 and 30 S., R. 2 E.

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From corner of secs. 3, 4, 33 and 34, I run West on true line, between secs. 4 and 33, over
Chains
                West on true line, between Socs.

gently rolling rocky prairie land.
Old Road, bears N. E. and S. W.

11 trachute stone 22x12x8 ins., 16 ins. in ground,
13.20
                Set trachyte stone 22x12x8 ins., 16 ins. in ground for 1/4 sec. corner, marked 1/4 on N. face, and raise mound of stone 3 ft. base, 2 ft. high, N.
40.00
                    of corner.
                Swale draw, course N. 70° W.
Set iron U. S. Forest Reserve Boundary Post No.
68.50
80.00
                    111, 30 ins. in ground, and build mound of stone 3½ ft. base, 1 ft. high, around same for corner of secs. 4, 5, 32 and 33, marked T 29 S S 33 in N. E. quadrant
                    R 2 E S 4 in S. E. quadrant
T 30 S S 5 in S. W. quadrant
S 32 in N. W. quadrant, with 4 notches on E. and
2 on W. sides, and raise mound of stone, 4 ft.
base, 3 ft. high W. of corner; pits impracticable.
                Land, rolling, stony, prairie. Soil, stony, 4th rate.
                No timber.
                From corner of secs. 4, 5, 32 and 33 I run West on true line between secs. 5 and 32, over
                     gently rolling, stony, prairie land.
                Old road, bears N. E. and S. W.
34.85
                Set trachyte stone 30xl0xl0 ins., 20 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face, and raise mound of stone, 4 ft. base, 3 ft. high, N. of corner; pits impracticable.

Set iron U. S. Forest Reserve Boundary Post No. 112
40.00
80.00
                    30 ins. in ground, and build mound of stone, 3\frac{1}{3} ft. base, 1 ft. high, around same for corner of
                    secs. 5, 6, 31 and 32, marked T 29 S S 32 in N. E. quadrant
                    R 2 E S 5 in S. E. quadrant T 30 S S 6 in S. W. quadrant.
                    S 31 in N. W. quadrant
RESERVE in S. E. and S. W., with 5 notches on
E. and 1 on W., and raise mound of stone, 4 ft.
base, 3 ft. high W. of corner.
                Land, rolling, stony prairie.
                Soil, stony, 4th rate.
                No/timber.
                From corner of secs. 5, 6, 31 and 32 I run
West on true line between secs. 6 and 31 over gent-
                     ly rolling prairie land, partially covered with
                     trachyte boulders.
                Flat draw in 30-foot depression, course N. 20° W.
  8.80
                Set sandstone 18x12x8 ins., 12 ins. in ground, for 1/4 sec. corner, marked 1/4 on N. face; raise mound of stone, 3 to ft. Base, 2 to high, N. of
40.00
                     corner.
                 Swale draw in 20-foot depression, course N. 20° E.
42.00
                 Flat swale draw, course N. 70° W.
76.50
                Allowing for convergency, set iron U. S. Forest Reserve Boundary Post No. 113, for corner of tps.
79.43
                     29 and 30 S., Rs. 1 and 2 E., marked T 29 S S 31 in N. E. quadrant
                     R 2 E S 6 in S. E. quadrant
T 30 S S 1 in S. W. quadrant
R 1 E S 36 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 6
```

notches on N., S., E. and W. sides, and raise mound of stone, $4\frac{1}{2}$ ft. base, $3\frac{1}{8}$ ft. high, S. of

Tps. 29 and 30 S., R. 2 E.

Chai'ns

corner. Land, rolling, stony prairie. Soil, stony and sandy, 4th rate. No timber.

At this township corner I set off 7°31' N. on declination arc and at 11h59m21s 1.m.t., observe sun on meridian and obtain reading of 38°14'45" on latitude arc.

GENERAL DESCRIPTION.

Tps. 29 and 30 S., R. 2 E., is high rolling prairie plateau, stony and gravelly, partially covered with small growth of yellow sage; very little grass. Drainage flows N. E. No water in townships; some timber in southeast portion of T.30 S., Some local attraction on lines run. Magnetic declination 16°45' E.

Tps. 29 and 30 S., R. 1 E.

From corner of Tps. 29 and 30 S., Rs. Land 2 E.,

West on true line between secs. 1 and 36, over gently rolling prairie land. Flat draw, course N. 20° W.

Set sandstone 18x12x10 ins., 12 ins. in the ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, and erect mound of stone, $3\frac{1}{2}$ ft. base, 2 ft. high, N. of

corner; pits impracticable.

Draw, 10 lks. wide in 20-foot depression, course
N. W.

N. W.

Set iron U. S. Forest Reserve Boundary Post No.
114, 30 ins. in ground, and build mound of stone
3½ ft. base, 1 ft. high, around same for corner
of secs. 1, 2, 35 and 36, marked
T 29 S S 36 in N. E. quadrant
B 7 F S 1 in S. E. quadrant R 1 E S 1 in S. E. quadrant T 30 S S 2 in S. W. quadrant

S 35 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 1
notch on E. and 5 on W. sides, witnessed by mound
of stone, 4½ ft. base, 3 ft. high, W. of corner.
Land, rolling and stony prairie.

Soil, gravelly and sandy, 4th rate. Bo timber.

From corner of secs. 1, 2, 35 and 36, I run West on true line between secs. 2 and 35, over gently rolling rocky prairie.

Dry branch, 20 lks. wide, course N. E., rocky bottom and in 40-foot depression.

Set trachyte stone 26x12x10 ins., 18 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, and raise mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, N. of corner; pits impracticable.

Begin ascent, bears N. and S. Set iron U. S. Forest Reserve Boundary Post No. 115, 28 ins. in ground and raise mound of stone. $3\frac{1}{2}$ ft. base, 1½ ft. high, around same for corner of secs. 2, 3, 34 and 35, marked T 29 S S 35 in N. E. quadrant R 1 E S 2 in S. E. quadrant T 30 S S 3 in S. W. quadrant S 34 in N. W. quadrant

13.60

11.10

40.00

67.20

80.00

40.00

71.00 80.00

```
Reserve in S. E. and S. W., with 2 notches on E., and 4 on W. sides, and raise mound of stone, 4 ft. base, 3 ft. high, W. of corner.

Corner falls on top of 90-foot step, bearing N.
Chains.
                     and S.
                 Land, rolling and hilly.
                            stony and gravelly and sandy, 4th rate.
                 No timber.
                 From corner of secs. 2, 3, 34 and 35, I run West on true line between secs. 3 and 34, over
                 gently rolling stony prairie. Set trachyte stone 24x12x10 ins., 18 ins. in
40.00
                     ground, for 1/4 sec. corner, marked \frac{1}{4} on N. face, and raise mound of stone, 3 ft. base, 2 ft high,
                     N. of corner.
                 Begin ascent, bears N. and S.
Set iron U. S. Forest Reserve Boundary Post No. 116,
78.00
80.00
                     24 ins. in ground, and build mound of stone, 32 ft. base, 12 ft. high, around same for corner of secs. 3, 4, 33 and 34, marked T 29 S S 34 in N. E. quadrant
                     R 1 E S 3 in S. E. quadrant
T 30 S S 4 in S. W. quadrant
S 33 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 3
notches on E. and W. sides, and raise mound of
stone, 4 ft. base, 3 ft. high, W. of corner.
                 Land, rolling stony prairie.
                 Soil, rocky and gravelly, 4th rate. No timber.
                 From corner of secs. 3, 4, 33 and 34, I run
                 West on true line between secs. 4 and 33, over gently rolling rocky prairie, gradually ascending. Top of ridge, 150 ft. above sec. corner, bears N. and S. 20° E.

Set trachyte stone 24x12x10 ins., 18 ins. in ground, for 1/4 sec. corner, marked 1/4 on N.
39.00
40.00
                      face, and raise mound of stone 3\frac{1}{2} ft. base, 2\frac{1}{2}
                      ft. high, N. of corner.
                 Enter bed of dry lake, bears N. and S.; prairie dog town along east bank.

Leave bed of dry lake, bears N. and S.; extends about 8 chs. S. and 10 chs. N.; flat bottom and shore line gives evidence of about 2 ft. depth of
51.00
70.00
                      water in wet weather; drains to S. at S. W. cor-
                      ner of lake.
                  Set iron U. S. Forest Reserve Boundary Post No. 117
80.00
                      12 ins. in ground to rock and build mound of stone,
                      4 ft. base, 2½ ft. high, around same for corner of secs. 4, 5, 32 and 33, marked T 29 S S 33 in N. E. quadrant
                     R 1 E S 4 in S. E. quadrant
T 30 S S 5 in S. W. quadrant
S 32 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 4
notches on E. and 2 on W. sides, and raise
mound of stone, 4 ft. base, 3 ft. high, W. of
                 corner, pits impracticable. Land, rolling and level.
```

Soil, rocky and sandy, 4th rate.

September 3,1904

No timber.

Tps. 29 and 30 S., R. 1 E.

```
September 4:
             At corner of secs. 4, 5, 32 and 33, I set off 38°14'45" on latitude arc and 7°15' N. on the
Chains!
                 declination arc, and at 7 a.m., l.m.t., establish
                 meridian with the solar.
              Thence I run
             West on true line between secs. 5 and 32 over
                 gently rolling prairie in flat cave.
20.00
             Flat draw, 10 lks. wide, course S. E. Begin ascent, bears N. W. and S. E.
27.00
             Top of 80-foot prairie bench, bears N. W. and S.E. Set sandstone 20x8x4 ins., 15 ins. in ground, for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on N. face, and build mound of stone, 3 ft. base, $2\frac{1}{2}$ ft. high, N. of corner; pits impracticable.
32.00
40.00
50.00
             Begin ascent, bears N. and S.
61.00
             Top of 50-foot ascent on south end of spur, bearing
                N.
             Swale draw, course S. E.
Enter aspen grove, bears N. and S., extends 2.00 chs.
N. and 1.00 ch. S.; begin ascent, bears N. and S.
Set iron U. S. Forest Reserve Boundary Post No. 118
76.50
77.80
80.00
                 30 ins. in ground, and build mound of stone, 3
                 ft. base, 1 ft. high, around same, for corner of
                 secs. 5, 6, 31 and 32, marked T 29 S S 32 in N. E. quadrant
                 R 1 E S 5 in S. E. quadrant T 30 S S 6 in S. W. quadrant
                 S 31 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 5
                notches on E. and 1 on W. sides, from which
An aspen, 6 ins. diam., bears N. 22° E., 41
lks. dist., marked T 29 S R 1 E S 32 B T
An aspen, 5 ins. diam., bears S. 46° E., 56
lks. dist., marked RES T 30 S R 1 E S 5
                      An aspen, 10 ins. diam..
                                                                bears S. 20°15' W.
                          1ks. dist., marked RES T 30 S R 1 E
             An aspen, 12 ins. diam., bears N. 38°30' W., 73
lks. dist., marked T 29 S R 1 E S 31 B T
Land, rolling and stony.
Soil, rocky and sandy, 4th rate.
Small grove of aspen timber, no other timber.
             From corner of secs. 5, 6, 31 and 32 I run
             West on true line between secs. 6 and 31, ascending
                 through aspen grove.
             Leave aspen grove, enter rocky prairie, bears N. W.
 2.00
                 and S. E.
 3.50
             Top of ascent on spur, bears N. W. and S. E., 50
                 ft. above sec. corner.
             Draw, 10 lks. wide, course S. 60° E., in 40-foot
17.00
                 depression.
             Intersect Salt Lake Meridian 5.98 chs. S. of corner of townships 29 and 30 S., Rs. 1 E. and 1 W.,
27.45
                 which is a trachyte or granite stone 12x6x6 ins.
                 above ground firmly set and marked with 6 notches
                 on N., S., E. and W. faces; does not contain marks S L M, as called for in notes. I build mound of stone, 4 ft. base, 3 ft. high, S. of this corner, as it has no other witness marks.
             At point of intersection of my line with S. L. M., I set iron U. S. Forest Reserve Boundary Post
                 No. 119, 30 ins. in ground and build mound of stone, 3 ft. base, 1 ft. high, around same for
```

Tps. 29 and 30 S., R. 1 E.

Chains

C. C. of Tps. 29 and 30 S., R. 1 E., marked: C C on top of cap E. of center T 29 S S 31 in N. E. quadrant
T 30 S R 1 E S 6 in S. E. quadrant
RESERVE in S. E. quadrant, with 6 notches on
N., E. and S. sides, and build mound of stone,
6 ft. base, 4½ ft. high, E. of corner; pits impracticable.

GENERAL DESCRIPTION.

T. 29 S., R. 1 E., is high rolling prairie plateau, with occasional aspen grove in western portion. Is covered with small growth of yellow sage and some little grass; drainage is to east and north-east; no water in township. Some local attraction on line run. Mean magnetic declination 16°20' E.

SALT LAKE MERIDIAN THROUGH T. 30 S.

From corner of Tps. 29 and 30 S., R. 1 W., on Salt Lake Meridian, which is a trachyte or granite stone 12x6x6 ins. above ground, as previously described.

Thence I run

South on a true line between Rs. 1 E. and 1 W., over rolling prairie. C. C. of Tps. 29 and 30 S., R. 1 E., as set by me

to-day.

Begin ascent, bears N. W. and S. E. Top of 80-foot ascent, bears N. W. and S. E.

Enter aspen grove, bears E. and W. Leave grove, enter prairie, bears N. 20° W. and s. 20° E.

Difference between measurements of 40.00 chs. by two sets of chainmen is 3 lks.; position of middle point

By 1st set, 39.98 chs.

By 2nd set, 40.02 chs., the mean of which is

Set trachyte stone 20x14x6 ins., 15 ins. in ground

for \(\frac{1}{4} \) sec. corner, marked \(\frac{1}{4} \) on W. face, with

mound of stone, 3 ft. base, 2 ft. high, W. of corner; pits impracticable.

Begin descent, bears N. W. and S. E. Base of 50-foot descent in swale draw, course S. E.

Begin descent, bears E. and W. Base of 40-foot descent, at draw, 15 lks. wide, Base of 40-foot descent, at draw, 15 lks. wide, course N. 80° E.; begin ascent.
Difference between measurements of 80.00 chs. by two

sets of chainmen is 1 lk; position of middle

point

By 1st set, 79.992 By 2nd set, 80.002, the mean of which is Set iron U. S. Forest Reserve Boundary Post No. 120, 20 ins. in ground to rock, and build mound of stone, 4 ft. base, 2 ft. high, around same for corner of secs. 1, 6, 7 and 12, marked T 30 S S 6 in N. E. quadrant

T 30 S S 6 in N. E. quadrant
R 1 E S 7 in S. E. quadrant
S 12 in S. W. quadrant
R 1 W S 1 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
notches on S. and 1 on N. sides, from which
An aspen, 8 ins. diam., bears S. 20°15' W., 2.
1ks. dist., marked T 30 S R 1 W S 12 B T. 218

No other trees available. I build mound of stone, 4 ft. base, 3 ft. high, W.

80.00

5.98

15.00 20.00

24.00 30.00

40.00

44.00 58.50

71.00

77.50

Salt Lake Meridian, through T. 30 S.

```
Chains
                   of corner
               Land, rolling rocky prairie.
               Soil, stony and gravelly, 4th rate.
               Occasional groves of aspen timber in heads of
                   draws and on steepest slopes.
                                                                              September 4, 1904.
               September 5: At corner of secs. 1, 6, 7 and 12, T. 30 S., R. 1 W., I set off 38°14' on latitude are and 6°53' N. on the declination are and at 6°58"458 a.m., 1.m.t., establish meridian with
                   solar.
               Thonce I run
               South on a true line on Salt Lake Meridian between
               secs. 7 and 12, over rolling prairie ascending. Top of gradual ascent, bears E. and W., 100 ft.
15.00
                   above sec. corner.
               Difference between measurements of 40.00 chs. by
                   2 sets of chainmen is 2 lks; position of middle
                   point
               By lat set, 39.99

By 2nd set, 40.01, the mean of which is

Set trachyte stone 28x12x4 ins., 18 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, with mound of stone, 3 ft. base, 2 ft. high, on W.
40.00
                   of corner.
               Difference between measurements of 80.00 chs. by
                   two sets of chainmen is 2 lks.; position of
               middle point

By 1st set, 80.01 chs.

By 2nd set, 79.99, the mean of which is

Set iron U. S. Forest Reserve Boundary Post No. 121,

12 ins. in ground to solid rock, and build mound
of stone, 4 ft. tase, 2½ ft. high, around same for
corner of secs. 7, 12, 13 and 18, marked

T.30 S., S 7 in N. E. quadrant

R 1 E S 18 in S. E. quadrant

R 1 W S 12 in N. W. quadrant

RESERVE in N. E. and S. E. quadrants, with 4
notches on S. and S on N. sides, and raise mound
of stone, 4 ft. base, 3 ft. high, W. of corner.

Land, rolling, rocky Pizirie.
                   midale point
00.08
                Land, rolling, rocky pinirie.
Soil, rocky, 4th rate.
               No timber.
                From corner of cees. 7, 12, 13 and 18, I run South on a true line on Salt Lake Meridian between
                    seco. 13 and 18, over gently rolling rocky prairie
                    land.
                Enter aspen grove, bears H. E. and W.
 20.60
                Head of cwale, drains to S. E.; leave aspen grove bears N. E. and W.
 29.00
                Rocky east nose of ridgo.
 36.00
                Difference between measurements of 40.00 chs. by
                    two sets of chainmen is 2 lks.; position of mid-
                    dle point
                By 1st set, 40.01 chs.

By 2nd set, 39.99 chs.; the mean of which is Set trachyte stone 26x14x10 ins., 18 ins. in ground for 2 sec. corner, marked 4 on W. face, with mound of stone, 4 ft. base, 3 ft. high, W.
 40.00
                    of corner.
                Difference between measurements of 80.00 chs. by
                     two sets of chainmen is 3 lks.; position of
                    middle point
```

Chains 80.00

By 1st set, 79.99 chs.

By 2nd set, 80.02 chs., the mean of which is
Set iron U. S. Forest Reserve Boundary Post No.
122, 20 ins. in ground to rock, and build mound
of stone, 4 ft. base, 2 ft. high, around same
for corner of secs. 13, 18, 19 and 24, marked
T 30 S S 18 in N. E. quadrant
R 1 E S 19 in S. E. quadrant S 24 in S. W. quadrant R 1 W S 13 in N. W. quadrant RESERVE in N. E. and S. E. quadrants, with 3 notches on N. and S. sides, with mound of stone, 4 ft. base, 4 ft. high, W. of corner.

Land, rolling and level. Soil, rocky and gravelly, 4th rate. No timber.

40.00

secs. 19 and 24 over gently rolling prairie. Difference between measurements of 40.00 chs. by two sets of chainmen is nothing.

Set trachyte stone 24x14x8 ins., 15 ins. in the ground, for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on W. face, with mound of stone, 3\(\frac{1}{6}\) ft. base, 2\(\frac{1}{6}\) ft. high, W. of corner.

From corner of secs. 13, 18, 19 and 24, I run South on a true line on Salt Lake Meridian between

58.00

Swale drains S. E. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point

80.00

By 1st set, 79.99 chs.

By 2nd set, 80.01, chs.; the mean of which is

Set iron U. S. Forest Reserve Boundary Post No. 123

on solid rock, cut cross () on rock with 2

notches on S. and 4 on N. of cross, over which I set iron post and 4 on N. of cross, over which I set iron post and build mound of stone, 6 ft. base, 3½ ft. high, around same for corner of secs. 19, 24, 25 and 30, marked T 30 S S 19 in N. E. quadrant R 1 E S 30 in S. E. quadrant S 20 in S. W. quadrant R 1 W S 24 in N. W. quadrant
RESERVE in S. E. and N. E. quadrants, with 2
not ches on S. and 4 on N. sides; mound of stone
4 ft. base, 3 ft. high, W. of corner.

Land, rolling, rocky prairie. Soil rocky and gravelly, 4th rate. No timber.

By 1st set, 39.98½ chs.

By 2nd set, 40.01½ chs.; the mean of which is

Set trachyte 18x10x8 ins., 12 ins. in ground for

½ sec. corner, marked ½ on W. face, with mound

of stone, 3½ ft. base, 2½ ft. high, W. of corner.

At this corner I set off 6°46'45" on declination are and at llh58m42s 1.m.t., observe sun on meridian and obtain a reading of 38°11' on latitude arc.

From corner of secs. 19, 24, 25 and 30, I run South on a true line on Salt Lake Meridian between secs. 25 and 30, over rolling rocky prairie. Difference between measurements of 40.00 chs. by two sets of chainmen is 1 lk. Position of middle point

Salt Lake Meridian, T. 30 S.

Chains. 50.80 Rocky draw, 10 lks. wide, course S. 70° E., in 30-foot depression. Difference between measurements of 80.00 chs. by two sets of chainmen is 2 lks.; position of middle point By 1st set, 79:99 chs. By 2nd set, 80.01 chs.; the mean of which is Set iron U.S. Forest Reserve Boundary Post No. 124 18 ins. in ground to solid rock and build mound of stone, 4 ft. base, 2 ft. high, around same for corner of secs. 25, 30, 31 and 36, marked T 30 S S 30 in N. E. quadrant R 1 E S 31 in S. E. quadrant S 36 in S. W. quadrant 80.00 S 36 in S. W. quadrant R 1 W S 25 in N. W. quadrant RESERVE in N. E. and S. E. quadrants, with 5 notches on N. and 1 on S. sides; with mound of stone, 4 ft. base, 3 ft. high, W. of corner. Land, rolling, rocky prairie. Soid, rocky and gravelly, 4th rate. No timber. From corner of secs. 25, 30, 31 and 36 I run South on a true line on Salt Lake Meridian between secs. 31 and 36, over gently rolling prairie. Draw, 15 lks. wide, course N. E. The magnetic needle swings to 25° E. of N., show-3.60 20.00 ing presence of iron. 38.00 Needle swings back to 13°02' E. Difference between measurements of 40.00 chs by two sets of chainmen is 3 lks.; position of middle point By 1st set, 40.02 chs. By 2nd set, 39.98 chs.; the mean of which is 40.00 Set trachyte stone 22x16x6 ins., 15 ins. in ground for $\frac{1}{4}$ sec. corner, marked $\frac{1}{4}$ on W. face, with mound of stone, $3\frac{1}{2}$ ft. base, $2\frac{1}{2}$ ft. high, W. of corner. Flat swale drains to E. 60.00 Difference between measurements of 80.00 chs. by two sets of chainmen is nothing. Set iron U. S. Forest Reserve Boundary Post No.125, 80.00 24 ins. in ground, and build mound of stone, 4 ft. base, 12 ft. high, around same for corner of Tps. 30 and 31 S., Rs. 1 E. and 1 W., marked T 30 S S 31 in N. E. quadrant R 1 E S 6 in S. E. quadrant T 31 S S 1 in S. W. quadrant R 1 W S 36 in N. W. quadrant RESERVE in N.E., S.E. and S. W. quadrants, with 6 notches on N., S., E. and W. sides, from which A lone aspen, 8 ins. diam., in rocky swale, bears S. 24°15' E., 697 lks. dist., marked RES T 31 S R 1 E S 6 B T No other trees available. I build mound of stone, 4 ft. base, 3 ft., high, south of corner. Land, rolling rocky prairie. rocky and gravelly, 4th rate. No timber.

GENERAL DESCRIPTION.

T. 30 S., R. 1 E., is high rolling prairie plateau, with occasional aspen groves in western portion; Drains to east and northeast; no water in town-

September 5, 1904.

Sixth Standard Parallel S., through R. 1 W.

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Chains
                             There is a lake called Pollywog Lake in
                   ship.
                  Sec. 14, T. 30 S., R. 1 W., of about 5 acres, though nearly dry at this time, water is muddy and staggant, though it affords watering place for
                  wild horses. Much local attraction on line run,
                  and secs. 31 and 36 give evidence of large body of iron near surface. Mean magnetic declination
                   14°00' E.
               September 6: At corner of Tps. 30 and 31 S., Rs. 1 E. and 1 W., I set off 38°09'30" on latitude arc and 6°30'30" N. on declination arc, and at 6<sup>h</sup>58<sup>m</sup>30<sup>s</sup> a.m., L.M.T., determine meridian with
               Thence I run
               West on random line on Sixth Standard Parallel.
                   over rolling rocky prairie land, setting stakes
                   for temporary \frac{1}{4} sec. corners and sec. corners at intervals of 40 and 80 chs.
               Intersect N. and S. range line 28.45 chs. N. 0°43'E. of standard corner of T. 30 S., Rs. 1 and 2 W.,
471.94
                   which is a trachyte 6x6x6 ins. above ground,
                   marked with 6 notches on E., E. and W. faces,
                   and witnessed as described in notes of General
                   Land Office.
               Note: The bearing of N. 0°43' E. is obtained by setting C. C. on line between township corner and ½ sec. corner on east boundary of sec. 36, the
               distance between which is 40.16 chs., by retracement.

At intersection of my line with N. and S. range line I set trachyte stone 26x14x8 ins., 6 ins. in ground to solid rock and build mound of stone
                   3 ft. base, 12 ft. high, around same for C. C. of south boundary of T. 30 S., R. 1 W., marked C C on E. face, with 6 notches on H. and E. faces,
                   from which
                        A pinion, 10 ins. diam., bears N. 61° E.,
                            lks. dist., marked C Ć, T. 30 S., R. 1 W..
                            S 31 B T;
                Raise mound of stone, 4 ft. base, 4 ft. high E.
                   of corner.
                                                                             September 6, 1904.
                September 7: Thence from C. C. of south boundary
                   of T. 30 S., R. 1 W., on west boundary of town-
                   ship, I run
                East on true line along south boundary of sec. 31,
                   through timber, ascending.
                Top of gradual ascent, 80 ft. above C. C. Begin abrupt descent, bears N. W. and S. E. Difference between measurements of 31.94 chs. by
    9.00
  14.00
                    two sets of chainment is 10 lks.; position of
                   middle point
                By 1st set, 31.99 chs.

By 2nd set, 31.89 chs.; the mean of which is

Set trachyte stone 22x14x12 ins., 12 ins. in

ground for $\frac{1}{4}$ standard corner, marked $\frac{1}{4}$ S C on K.

face, from which
  31.94
                        A pinion, 10 ins. diam., bears N. 44°3 17 lks. dist., marked S C & S 31 B T
                                                                   bears N. 44°30' E..
                         A pinion, 10 ind. diam., bears N. 45°45' W., 75 lks. dist., marked S C & S 31 B T
                Leave thick timber, enter scattering timber, on
nearly bare rocky surface.
Draw, 10 lks. wide, course S. 20° E., at base of
  37.00
  39.00
                    400-foot descent.
                Canyon draw, 10 lks. wide, course S.; begin abrupt
  47.00
                   rocky ascent.
```

Top of 200-foot ascent on ridge, bears K. and S.

54.40

Sixth Standard Parallel S., through R. 1 W.

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Chains
57.90
            Begin abrupt descent, bears N. and S.
65.00
            Draw, 10 lks. wide, at base of 300-foot descent,
            course S.; begin abrupt ascent, over bare slide. Top of 250-foot ascent, on ridge bears N. and S.
70.50
            Difference between measurements of 71.94 chs. by
               two sets of chainmen is 6 lks.; position of
            middle point

By 1st set, 71.91 chs.

By 2nd set, 71.97 chs.; the mean of which is

Set trachyte stone 20x12x10 ins., 15 ins. in
71.94
               ground for standard corner of secs. 31 and 32,
               marked S. C. on N., 5 notches on E. and 1 on W.
               faces, from which
                                                        bears N. 60°15' E., 1
                    A pinion, 6 ins. diam., b
lks. dist., marked S C
                    A red fir, 14 ins. diam., bears N. 38°15' W.,87 lks. dist., marked S C T 30 S R 1 W S 31
            Land, mountainous and precipitous.
            Soil, rocky and bare slide rock and dirt, 4th rate.
            Timber, pinion-pine, cedar and fir.
                                                           September 7. 1904.
            Sertember 6: From S. C. of secs. 31 and 32 I run East on true line along south boundary of sec. 32,
               through timber, descending.
12.00
            Draw, 10 lks. wide, course S., at base of 300-foot
               descent; begin ascent.
18.00
            Top of 100-foot ascent, bears N. and S. E. on S.
               slope of ridge.
20.00
            Begin abrupt descent, bears N. E. and S. W.
            Base of 200-foot descent, bears N. E. and S. W.
32.00
            Draw, 10 lks. wide, course S. Dry branch, 20 lks. wide, 8 ft. banks, course S.W.
32.40
37.00
            Begin alrupt ascent, bears H. E. and S. W.
37.50
            The difference between measurements of 40.00 chs.
               by two sets of chainmen is 8 lks.; position of
                 middle point
            By 1st set, 40.04 chs.;
by 2nd set, 39.96 chs.; the mean of which is
True point for 4 sec. corner falls on slide dirt.
40.00
            Set trachyte stone 18x12x 3 ins. 12 ins. in ground
40.60
            for witness corner to 4 standard sec. corner, marked W C \( \frac{1}{2} \) S C on R. face, from which

A pinion, 10 ins. diam., bears N. 84°30' E.,

45 lks. dist., marked W C S C \( \frac{1}{4} \) S 32 B T

A pinion, 12 ins. diam., bears N. 5°30' W.,

127 lks. dist., marked W C S C \( \frac{1}{4} \) S 32 B T

Top of 400-foot ascent, bears N. E. and S. W.

Begin descent, bears N. W. and S. E.
53.00
            Begin descent, bears H. W. and S. E.
54.00
            Base of 90-foot descent at ravine, 10 lks. wide,, course N. 30° W.; begin abrupt ascent.
58.00
             Top of abrupt ascent, continue gradual ascent,
63.00
                bears N. and S.
            Difference between measurements of 80.00 chs. by
               two sets of chainmen is 8 lks.; position of
               middle point
            By 1st set, 79.96 chs.

By 2nd set, 80.04 chs.; the mean of which is

Set iron U. S. Forest Reserve Boundary Post No. 129

18 ins. in ground to rock, and build mound of stone, 4 ft. base, 2 ft. high, around same for standard corner of secs. 32 and 33, marked S C
80.00
                on top of cap N. of center,
               T 30 S S 33 in N. E. quadrant
                R 1 W S 32 in N. W. quadrant
```

Sixth Standard Parallel S., R. 1 W.

```
Chains.
                RESERVE in S. E. and S. W. quadrants, with 4
                notches on E. and 2 on W. sides, from which A cedar, 14 ins. diam., bears N. 20°30' E., 106 lks. dist., marked S C T 30 S R 1 W
                         S 33 B T
                                                              bears N. 71°45' W.,
                     A pinion, 12 ins. diam.,
                         55 lks. dist., marked S C T 30 S
                         S 32 B T
             Corner falls on N. side of hill 500 ft. above
                ravine.
             Land, mountainous.
             Soil, rocky and gravelly, 4th rate.
             Timber, pinion, cedar and some yellow pine.
             From standard corner of secs. 32 and 33 I run East on true line along south boundary of sec.
             through scattering timber along N. side of hill. Spring brook, 1 lk. wide, 1 in. deep, course N.W.,
   7.50
                water dries up before it reaches foot of hill;
                dense birch brush along creek,
17.85
             Spring brook, 1 lk. wide, ½ in. deep, course N.W. Leave scattering timber, enter prairie and begin
                ascent.
             Top of 100-foot ascent, bears N. E. and S. W.
39.00
             Difference between measurements of 40.00 chs. by
                two sets of chainmen is 6 lks.; position of
                middle point
             By 1st set, 40.03 chs.

By 2nd set, 39.97 chs.; the mean of which is

Set trachyte stone 22x12x6 ins., 15 ins. in ground

for 4 corner, marked 4 S C on N. face, with

mound of stone, 3½ ft. base, 2½ ft. high, N. of
40.00
             corner; ptts impracticable.

Draw, 10 lks. wide, course N. W.; begin ascent.
43.50
             Top of 100-foot ascent, bears N. and S.
Begin descent, bears N. and S.
Base of 40-foot descent at swale. Draw, 10 lks.
wide, course N. W.; begin ascent.
Top of 200-foot ascent, bears N. and S.; thence
55.00
58.00
75.00
                 over rolling sage brush bench.
             Difference between measurements of 80.00 chs. by
                two sets of chainmen is 8 lks.; position of
             middle point

By 1st set, 80.04 chs.

By 2nd set, 79.96 chs.; the mean of which is
The point for sec. corner falls on solid rock
  80.00
                flush with surface of ground, at which point I cut cross (+) and mark S C N., three notches E. and W. of cross, over which I set iron U. S.
                Forest Reserve Boundary Post No. 128 in mound of stone, 5 ft. base, 3½ ft. high, for standard corner of secs. 33 and 34, marked
                S C on top of cap N. of center
T 30 S S 34 in N. E. quadrant
R 1 W S 33 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 3
                notches on E. and W. sides, and build mound of stone, 32 ft. base, 22 ft. high, N. of corner;
                 pits impracticable.
             Land, mountainous and rolling benches.
             Soil, rocky, 4th rate.
             Timber, occasional pinion and cedar tree.
            From standard corner of secs. 33 and 34 I run
            East on true line along S. boundary of sec. 34,
```

over rolling rocky stars sage brush bench.

14.00 Begin ascent, bears N. and S.; enter timber, bears

```
Chains
              N. and S.
                             , small pine and mountain mahogany.
            Top of precipitous rocky ascent, 650 ft. high,
35.20
              bears N. and S.
           Set flag pole in mound of stone for line marking.
Leave timber, enter rocky prairie plateau.
Enter aspen grove, bears N. and S.
Difference between measurements of 40.00 chs. by
35.22
39.50
              two sets of chainmen is 12 lks.; position.of
              middle point
           By 1st set, 40.06 chs.

By 2nd set, 39.94 chs.; the mean of which is

Set trachyte stone 20x12x6 ins., 15 ins. in ground

for \( \frac{1}{4} \) standard corner, marked \( \frac{1}{4} \) S C on N. face,
40.00
               from which
                   An aspen, 10 ins. diam., bears N. 4°30' E.,
                      53 lks. dist., marked S C \frac{1}{4} S 34 B T
                   An aspen, 8 ins. diam., bears N. 14°30' W., 43 lks. dist., marked S C & S 34 B T
           Leave aspen grove, enter praimie, bears N. and S. Leave prairie, enter aspen grove, bears N. and S. Leave aspens, enter prairie, bears N. 20° E. and
40.10
49.50
52.00
           Leave prairie, enter aspens, bears N. and S. E. Summit of divide bears N. and S. on gently rolling
60.50
65.00
              plateau.
77.00
            Leave aspen grove, enter rolling prairie, bears
              N. and S.
            Difference between measurements of 80.00 chs. by
               two sets of chainmen is 4 lks.; position of
               middle point
                   By 1st set, 79.98 chs.
By 2nd set, 80.02 chs.; the mean of which is
            Set iron U. S. Forest Reserve Boundary Post. NO. 127, 10 ins. in ground to solid rock and build
80.00
              mound of stone, 4 ft. base, 3 ft. high, around same for standard corner of secs. 34 and 35,
              S C on top of cap N. of center
T 30 S S 35 in N. E. quadrant
R 1 W S 34 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 2
              notches on E. and 4 on W. sides, from which
                   An aspen, 8 ins. diam., bears N. 46°30' W.
                       240 lks. dist., marked S C T 30 S
                                                                           R 1 W
                       S 34 B T
                   An aspen, 10 ins. diam., bears N. 30°15' E., 321 lks. dist., marked S C T 30 S R 1 W
                      S 35 B T
            Land, mountainous and rolling.
            Soil, rocky and gravelly, 4th rate.
            Timber, aspen, pinion-pine and mountain mahogany.
            From standard corner of secs. 34 and 35 I run East on true line along south boundary of sec. 35
               over rolling prairie, gradually descending.
            Leave prairie, enter aspen grove, bears N.W. and
 4.00
               SIE.
15.20
            Leave aspens, enter prairie, bears N.E. and S.E.
          Fence N. E. to S. W. Fence N. W. and S. E. around sheep corral, 2 chs.
19.20
19.90
               square.
30.00
            Base of 100-foot gradual descent, bears N.W. and
              S.E.
            Difference between measurements of 40.00 chs. by
               two sets of chammen is 3 lks.; position of
               middle point
                   By 1st set, 39.98 chs.
By 2nd set, 40.02 chs.; the mean of which is
```

AQUARIUS FOREST RESERVE BOUNDARY.

Sixth Standard Parallel S., R. 1 W.

```
Chains
                Set granite 20x10x6 ins., 14 ins. in ground, for 

$\frac{1}{4}$ standard corner, marked S C $\frac{1}{4}$ on N. face and raise mound of stone 2$\frac{1}{2}$ ft. base, 2 ft. high, N. of
40.00
                    corner; pits impracticable.
                Swale draw, course S. 20° E. Difference between measurements of 80.00 chs. by
68.00
                    two sets of chainmen is 2 lks.; position of
                    middle point
                By 1st set, 80.01 chs.

By 2nd set, 79.99 chs.; the mean of which is

Set iron U. S. Forest Reserve Boundary Post No. 126,

12 ins. in ground to solid rock and build mound of

stone, 4½ ft. base, 2½ ft. high, around same for

standard corner of secs. 35 and 36, marked S C
80.00
                   on top of cap N. of center
T 30 S S 36 in N. E. quadrant
R 1 W S 35 in N. W. quadrant
RESERVE in S. E. and S. W. quadrants, with 1
notch on E. and 5 on W. sides, and raise mound
of stone, 22 ft. base, 2 ft. high, N. of corner.
                Land, rolling plateau.
                Soil, rocky, gravelly, 4th rate.
Timber, aspen or quaking asp in groves.
                                                                            September 6, 1904.
                From standard corner of secs. 35 and 36 I run
                East on true line along south boundary of sec. 36
                    over rolling rocky prairie.
                Difference between measurements of 40.00 chs. by two sets of chainmen is 4 lks.; position of middle
                    point
                         By 1st set, 40.02 chs.
By 2nd set, 39.98 chs.; the mean of which is
                Set trachyte stone 18x8x6 ins., 12 ins. in ground for standard ½ sec. corner marked S C ½ on N. face, and raise mound of stone 2½ ft. base, 2 ft. high, N. of corner; pits impracticable.
40.00
                Difference between measurements of 80.00 chs. by
                    two sets of chainmen is 4 lks.; position of middle
                    point
                By 1st set, 79.98 chs.

By 2nd set, 80.02 chs., the mean of which is
Intersect corner of Tps. 30 and 31 S., R. 1 E. and
1 W. on Salt Lake Meridian, set by me September
80.00
                   5, as previously described.
                Land, rolling plateau.
                Soil, rocky and gravelly.
                No timber.
                                                                           September 5, 1904.
                September 9: Polaris observation: At camp near
                   corner of secs. 19, 24, 25 and 30, T. 31 S., Rs. 1 and 2 W., latitude 38°05'30", I set off 38°05'30" on latitude arc and 5°13'30" N. on declination arc and at 4<sup>h</sup>57<sup>m</sup>30<sup>s</sup> p.m., 1.m.t., and
                   establish meridian with the solar and mark direction thus determined by hub driven at 6.00 chs.
                    dist.
               With instrument unmoved I observe Polaris in accordance with Manual instructions at 9 12 p.m.,
                   1.m.t., and mark direction thus determined by hub
                   at 6.00 chs. dist.
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Chains!
              U. C. Sep. 1, 1904,
                                                                            14<sup>h</sup>41.4<sup>m</sup>
                                                                              31.4
14<sup>h</sup>10<sup>m</sup>
              Reduction to Sep. 9.
              U. C. Sep. 9
                                                                                9 12
              Time of observation Sep. 9,
              Time argument
                                                                                4h58<sup>m</sup>
              Azimuth Polaris at observation = 1°28'15" E.
              September 10:
              At 6<sup>h</sup>45<sup>m</sup> a.m., I turn off the azimuth of Polaris 1°28'15" to the left and find meridian thus de-
                  termined agrees with that established by solar
              observation yesterday P/M.

I set off 38°05'15" on latitude arc and 5°00'30" N.
on declination arc and at 6<sup>h</sup>57<sup>m</sup> a.m., l.m.t., establish meridian with solar and find same agrees
                  with previously established meridian.
                                Tps. 31 and 32 S., R. 1 W.
              At corner of Tps. 31 and 32 S., Rs. 1 and 2 W.,
                 which is a trachyte 10x8x6 ins. above ground, marked with 6 notches on 4 edges, firmly set in ground with small mound of stone W. of corner
                  and witnessed by a
                       A pinion 10 ins. diam., which bears N.21°30' W.
                           38 lks. dist., instead of N.10° W., 50 lks. dist., as called for in notes of General
                          Land Office, which bearing tree is improperly
              marked T 32 S, etc. I re-mark same
T 31 S R 2 W S 36 B T.
I set off 38°04' on latitude are and 4°58'30" N.
                  on declination are and at 8 o'clock a.m., l.m.t.,
                  establish meridian with solar.
              Thence I run
              East on true line between secs. 6 and 31, through
              scattering timber, over rolling surface. Head of open hollow draw, course N. 20° W.
 4.00
             Head of open hollow draw, course N. 20° W.
Head of open hollow draw, course N.
Road, bears N. 20° W. and S. 20° W.
Old road, bears N. and S. 20° W.
Draw, 5 lks. wide, course N. Leave scattering timber, enter open flat, bears N. and S.
Draw, 10 lks. wide, course N. 20° W.
Set trachyte stone 22x14x10 ins., 15 ins. in ground for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on N. face, and erect mound of stone, 2\(\frac{1}{2}\) ft. base, 2 ft. high, N. of corner: pits impracticable.
22.00
24.25
30.00
33.65
35.50
37.79
              corner; pits impracticable.

Leave flat and begin gradual ascent and enter scat-
44.00
                  tering timber, bears N. and S.
              Top of 80-foot ascent on N. slope of spur.
54.00
              Head of draw, course N.
60.00
              Begin descent, bears N. 70° W. and S. 20° E.
65.00
              Base of 60-foot descent in open hollow draw, course
72.20
                 N. 30° W.
              Allowing for convergency, I set iron U. S. Forest
Reserve Boundary Post No. 136, 18 ins. in ground
to solid rock and build mound of stone, 4 ft.
77.79
                  base, 2 ft. high, around same for corner of secs.
                 31 and 32, marked
T 31 S S 32 in N. E. quadrant
R 1 W S 31 in N. W. quadrant
RESERVE in N. E. quadrant, with 5 notches on E.
                  and 1 on W. sides, from which
                       A pinion, 14 ins. diam., bears N. 5° E., 33 lks. dist., marked RES T 31 S R 1 W S 32
                       A pinion, 10 ins. diam., bears N. 72°30' W.
                           135 lks. dist., marked T 31 S R 1 W S 31
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Note: This corner was left unmarked until after line from south proved to be a closing line and

Tps. 31 and 32 S., R. 1 W.

```
Chains.
                  C. C. falling to east of this corner.
              Length of line determined as follows:
Latitude of 7th Standard Parallel S., =37°43'26"
              Latitude south boundary T. 31 S., =38°0 Cos 37°43'26": cos 38°04 = 480 chs.: 477.79
                                                                                    =38°04 '
              A.C. \log \cos 37^{\circ}43^{\circ}26^{\circ} = 0.101842
                       log cos 38°04'
                                                       = 9.896137
                       log 480
                                                       = 2.681241
                                                          2.679220 = 477.79
              Therefore theoretical length of line between
                  secs. 6 and 31 is 77.79 chs.
              Land, rolling.
              Soil, rocky and gravelly, 4th rate.
              Timber, scattering pinion-pine.
              At this corner I set off 4°54' N. on declination are and at 11<sup>h</sup>57<sup>m</sup> 1.m.t. observe sun on meridian
                  and obtain reading of 38°04' on latitude arc.
                                            T. 31 S., R. 1 W.
              From corner of secs. 31 and 32 on south boundary of T. 31 S., R. 1 W., I run
N. 0°03' W. on true line between secs. 31 and 32 over
                  rolling surface through scattering timber, grad-
                  ually ascending.
              Draw, 5 lks. wide, course N. 80° W.
Draw, 10 lks. wide, in 50-foot depression, course
N. 80° W.
2.40
11.70
18.00
              Top of ascent on W. slope of spur, 100 ft. above
                 sec. corner.
              Begin gradual descent, bears E. and W.
20.00
32.00
              Spring brook, 2 lks. wide, 6 ins. deep, clear fresh
                 water, course W., at base of 80-foot descent,
              begin ascent, bears E. and W. Set trachyte stone 20x12x10 ins., 15 ins. in ground for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from
40.00
                 which
             A pinion, 14 ins. diam., bears N. 38° E., 83
lks. dist., marked RES ½ S 32 B T
A pinion, 14 ins. diam., bears S. 10°30' W.,
100 lks. dist., marked ½ S 31 B T

Top of 80-foot ascent on gradual W. slope of spur.
Draw, 5 lks. wide, in 20-foot depression, course W.
Draw, 5 lks. wide, in 20-foot depression, course W.
Poison Creek, 30 lks. wide, 6-foot banks, stream
fresh water, 3 lks. wide, 3 ins. deep, course
N. 80° W.
45.00
 58.00
66.30
77.65
                 N. 80° W.
              Road, bears N. 80° W. and S. 80° E., "Coyote and
79.10
              Thurber Road" rough and steep up mountain to E. Set iron U. S. Forest Reserve Boundary Post No. 135
80.00
                  18 ins. in ground to rock and build mound of stone
                 4 ft. base, 2 ft. high, around same for corner of secs. 29, 30, 31 and 32, marked T 31 S S 29 in F. E. quadrant
                            S 32 in S. E. quadrant
                 S 31 in S. W. quadrant
S 30 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
                 notches on E. and 1 on S. sides, from which A cottonwood, 8 ins. diam., bears S. 11°.
                                                                        bears S. 11°15' E.
                           151 lks. dist., marked RÉS
                                                                          T 31 S
                           S 32 B T, or south side of road.
                      A pinion, 10 ins. diam., bears S. 68° W., 59 lks. dist., marked T 31 S R 1 W S 31 B T A cedar, 12 ins. diam., bears K. 51°45' W., 1ks. dist., marked T 31 S R 1 W S 30 B T No northeast tree available.
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Land, hilly and rolling.
Soil, rocky and gravelly, 4th rate.
Timber, scattering pinion and cedar; cottonwood
Chains!
                  and aspen along creek.
              From corner of secs. 29, 30, 31 and 32 I run
N. 0°03' W. on true line between secs. 29 and 30,
from corner in north edge of timber, thence over
              rolling, rocky prairie.
Spring brook, 2 lks. wide, 4 ins. deep, course
  5.55
                  N. 80° W.
  7.10
               Spring brook, 2 lks. wide, 3 ins. deep, course
                  N. 80° W.
              Draw, 3 lks. wide, course N. 70° W., e. tering timber, bears N. W. and S. E. Draw, 5 lks. wide, course N. 80° W. Flat dry wash, 10 lks. wide, course W.
28.00
                                                                                 enter scat-
35.00
39.00
              Set trachyte stone 20x12x8 ins., 15 ins. in ground for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from
40.00
                  which
                       A pinion, 10 ins. diam., bears N. 53°30' E., 86 lks. dist., marked RES \frac{1}{4} S 29 B T
                       A pinion, 12 ins. diam., bears S. 66°45' W., 44 lks. dist., marked \frac{1}{4} S 30 B T
              Draw, 10 lks. wide, course N. 80° W.
Begin abrupt descent, bears N. 70° E. and S. 70° W.
enter thick small timber.
45.20
72.50
              Set trackyte stone 24x14x8 ins. 18 ins. in ground
00.08
                  for corner of secs. 19, 20, 29 and 30, marked 5 notches on E. and 2 on S. faces, from which A cedar, 12 ins. diam., bears N. 69°30' E., 59 lks. dist., marked RES T 31 S R 1 W
                           S 20 B T
                       A cedar, 12 ins. diam., bears S. 23°30' E., 2
lks. dist., marked RES T 31 S R 1 W S 29
                       A pinion, 8 ins. diam., bears S. 37° W., 48 lks. dist., marked T 31 S R 1 W S 30 B T A pinion, 14 ins. diam., bears N. 43°30' W., 79 lks. dist., marked T 31 S R 1 W S 19 B T, and erect mound of stone, 4 ft. base,
                           2½ ft. high, W. of corner.
              Corner falls on steep N. W. slope, 200 ft. below
                  summit.
              Land, rolling and mountainous.
              Soil, rocky and gravelly, 4th rate.
              Timber, small pinion and cedar.
              Note: This corner falls in obscure place and I therefore set stone corner and will set iron post near road side in flat to north.
                                                                     September 10. 1904.
              September 12: At corner of secs. 19, 20, 29 and 30, I set off 38°05'30" on latitude arc and 4°14'45" N.
                  on declination are and establish meridian with
                  solar.
              Thence I run N. 0°03' W. on a true line through
                  timber along W. slope of spur between secs. 19
                  and 20.
  1.00
              Begin abrupt descent, bears N. 80° W. and S. 80° E.
              Side hill wash, 3 lks. wide, course N. 30° W. Side hill wash, 3 lks. wide, course N. 30° W. Base of descent, bears N. 60° E. and S. 60° W.,
  3.00
  7.75
15.20
              150 ft. below sec. corner.
Coyoto or Antimony Creek, clear fresh water, 20 lks.
wide, 12 ins. deep, course S. 60° W.
16.00
17.00
              Leave timber and enter irrgated hay field, bears
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N. 60° E., and S. 60° W.
Farm road, bears E. and W.
 Chains
 30.25
                                                                          Leave cultivated field,
                 enter prairie, begin ascent. House bears E. about 15.00 chs. dist.

Irrigation ditch, 10 lks. wide, water 10 ins. deep, course S. 70° W.

Wire fence bears N. 85° W. and S. 85° E.; top of
 32.20
 35.70
                      40-foot ascent; thence over rolling rocky prairie
                 bench, gradually ascending.

Road, bears N. 80° W. and S. 80° E.

Set iron U. S. Forest Reserve Boundary Post No. 134

12 ins. in ground to solid rock, and build mound

of stone, 5 ft. base, 24 ft. high around same for
 37.00
 40.00 -
                      a sec. corner, marked
                     T 31 S N W \frac{1}{4} sec. 20 in N. E. quadrant R 1 W S W \frac{1}{4} S 20 in S. E. quadrant
                     S E 4 S 19 in S. W. quadrant
N E 4 S 19 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants on top of cap, and raise mound, 4 ft. base, 3 ft. high,
                 W. of corner.
Set iron U. S. Forest Reserve Boundary Post No. 133
18 ins. in ground to rock, and build mound of stone,
.80.00
                     5 ft. base, 2½ ft. high around post for corner of secs. 17, 18, 19 and 20, marked T 31 S S 17 in N. E. quadrant
                     R 1 W S 20 in S. E. quadrant
                 S 19 in S. W. quadrant
S 19 in S. W. quadrant
S 18 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
notches on E. and 3 on S., and erect mound of
stone, 3 ft. base, 2½ ft. high, W. of corner.
Land, rolling, hilly, and level rocky.
Soil, gravelly and sandy, 3rd and 4th rate.
Timber, pinion and cedar south of creek.
                 From corner of secs. 17, 18, 19 and 20 I run N. 0°03' W. over gently rolling rocky prairie
                  Leave prairie, enter timber, bears N. 60° W. and
 22.00
                      S. E.
                 Draw, 15 lks. wide, course E. 20° E. Set trachyte stone 24x12x8 ins. 18 ins. in ground
 34.50
 40.00
                      for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from
                     which
                               cedar, 12 ins. diam., bears N. 10° lks. dist., marked RES \frac{1}{4} S 17 B T
                           A cedar, 12 ins. diam.
                                                                                               10° E., 25
                           A pinion, 14 ins. diam., bears S. 56°30' W., 91 lks. dist., marked ½ S 18 B T
                           And raise mound of stone, 2\frac{1}{2} ft. base, 2 ft.
                 high W. of corner.

Same draw, 15 lks. wide, course S. 20° W.; begin ascent, bears N. 20° E. and S. 20° W.

Top of 50-foot abrupt ascent, bears N. E. and S. 20° W.,
 46.40
 55.00
                     thence over timbered bench.
                 Old wood road, bears N. E. and S. W. Begin ascent, bears E. and W.
 56.10
 66.00
                 Set iron U. S. Forest Reserve Boundary Post No. 132,
 80.00
                     28 ins. in ground, and raise mound of stone, 4
                     ft. base, le ft. high, around post for corner of secs. 7, 8, 17 and 18, marked T 31 S S 8 in N. E. quadrant R 1 W S 17 in S. E. quadrant
                     S 18 in S. W. quadrant
                     S 7 in N. W. quadrant
                     RESERVE in N. E. and S. E. quadrants, with 5 notches on E. and 4 on S. sides, from which
                           A pinion, 10 ins. diam., bears N. 21° E., 45
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Chains.
                                1ks. dist. marked RES
                                                                                T 31 S
                                                                                                 RlW
                                                                            bears S. 86°30' E.,
                           A cedar, 12 ins. diam..
                                12 lks. dist., marked RES T 31 S R 1 W
                                S 17 B T
                           A cedar, 16 ins. diam., bears S. 61°30' W., 12 lks. dist., marked T 31 S R 1 W S 18
                A cedar, 12 ins. diam., bears N. 38° W., 29 lks. dist., marked T 31 S R 1 W S 7 B T Corner falls on south slope of hill 200 ft. above
                               draw.
                Land, rolling and hilly.
                 Soil, rocky and gravelly, 4th rate.
                Timber, pinion and cedar. No work in p.m. on account of cloudy weather.
                                                                                 September 12, 1904.
                 September 13: At camp testing instrument.
                September 14: At corner of secs. 7, 8, 17 and 18, I set off 38°08' on latitude arc, and 3°28'45" N. on declination arc and at 7 a.m., 1.m.t., estab-
                     lish meridian with solar.
                Thence I run
N. 0°03' W. on true line between secs. 7 and 8,
                     through thick small pinion and cedar timber, as-
                     cending.
                 Top of ascent, 100 ft. above section corner on W. slope of spur.
15.00
                Begin descent, bears N. 80° E. and S. 20° W. Draw, 10 lks. wide, course S. 70° W., at base of 50-foot descent; thence ascending along W. slope
16.00
 18.75
                of spur.

Top of 30-foot ascent on W. slope; begin gradual descent, bears N. 20°E. and S. 20° W.

Draw, 10 lks. wide, course S. 60° W. for 10.00 chs., thence S. 20° W.; base of 50-foot descent, begin
24.00
29.90
                     ascent.
                 Set trachytestone 26x12x8 ins., 18 ins. in ground for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from
40.00
                     which
                           A pinion, 4 ins. diam., bears N. 53 lks. dist., marked RES 1/4 S 8 B T
                                                                             bears N. 53°45' E.. 89
                A pinion, 10 ins. diam., bears N. 69° W., 5 lks. dist., marked ½ S 7 B T

Top of 150-foot ascent on W. slope of spur, begin descent, bears N. E. and S. 10° W.

Draw, 8 lks. wide, course S. 60° W. at base of 80-foot descent, begin ascent.
45.00
52.15
                 Top of 90-foot ascent on ridge, bears E. and W.
60.00
                Top of 90-100t ascent on ridge, bears E. and E.

Head of draw, course W.

Top of ridge, bears N. 80° W. and S. 80° E.

Draw, 5 lks. dist., course N. 70° W.

Set iron U. S. Forest Reserve Boundary Post No. 131

28 ins. in ground and raise mound of stone, 4 ft.

base, 1½ ft. high around same for corner of

secs. 5, 6, 7 and 8, marked

T S1 S S 5 in N. E. quadrant

R 1 W S 8 in S. E. quadrant

S 7 in S. W. quadrant
63.00
66.00
72.00
80.00
                     S 7 in S. W. quadrant
S 6 in N. W. quadrant
RESERVE In N. E. and S. E. quadrants, with 5
                     notches on E. and S. faces, from which A pinion, 8 ins. diam., bears W. 56° E., lks. dist., marked RES T 31 S R 1 W
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A cedar, 6 ins. diam., bears S. 52° E., 61

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Chains.
                                                                          T 31'S
                                                                                        R 1 W
                             1ks. dist., marked RES
                             \mathbf{B} T
                         A cedar, 8 ins. diam., bears S. 67°45' W., 33 lks. dist., marked T 31 S R 1 W S 7 B T A pinion, 10 ins. diam., bears N. 46°45' W., 26 lks. dist., marked T 31 S S 6 B T, and raise mound of stone, 3½ ft. base, 2½ ft. high
                             W. of corner.
                Corner falls on N. W. spur of ridge. Land, mountainous and hilly.
                Soil, rocky and gravelly, 4th rate.
                Timber, pinion and cedar.
                At this corner I set off 3°22'30" N. on declination are and at 11h55m37s 1.m.t., observe sun on meridian and obtain a reading of 38°08'45" on
                    latitude arc.
                From corner of secs. 5, 6, 7 and 8, I run N. 0°03' W. on random line between secs. 5 and 6
                    over broken mountainous land through small timber
                Set stake for temporary 4 sec. corner.

Intersect Sixth Standard Parallel South 16.15 chs.
east of standard corner of secs. 31 and 32, at
which Point I set iron U. S. Forest Reserve
Boundary Post No. 130, 30 ins. in ground and
build mound of stone, 3 ft. base, 1 ft. high,
around post for C. C. of secs. 5 and 6, marked
 40.00
111.25
                    C C on top of cap south of center R 1 W S 5 in S. E. quadrant T 31 S S 6 in S. W. quadrant
                    RESERVE in S. E. quadrant, with 5 notches on E. and
                    l on W. sides, from which
A pinion, 10 ins. diam., bears S. 39° E.,
lks. dist., marked RES T 31 S R 1 W
                A'pinion, 12 ins. diam., bears S. 40° W., 75 lks. dist., marked T 31 S R 1 W S 6 B T Thence from this closing corner I run S. 0°03' E. on true line between secs. 5 and 6,
                   along steep west slope of ridge.
                S. W. point of ridge, begin descent, bears E. and W.
   1.00
 12.30
                Base of 250-foot descent, bears E. and W.
                Draw, 10 lks. wide, course S. 20° E. Old road, bears N. E. and S. W.
  15.25
 16.25
                Dry branch, locally called "Dry Wash", 20 lks. wide
 18.70
                    8-foot banks, course S. 80° W., begin abrupt as-
 31.30
                Top of 200-foot ascent, bears N. 86° E. and S. 80°W
                Thence over rolling, partially bare washed surface. Draw, 10 lks. wide, course W., in 40-foot depress-
 48.00
                    ion.
                Draw, 8 lks. wide in 30-foot depression, course W. Draw, 10 lks. wide, 30-foot rock wall banks, course
 59.75
 67.70
                    N. 60°W., begin ascent.
                 Set trachyte stone, 26x14x10 ins.,
  71.25
                                                                                18 ins. in
                    ground, for 4 sec. corner, marked 4 on W. face,
                    from which
                         A pinion, 14 ins. diam., bears S. 79°15' E., 42 lks. dist., marked RES ½ S 5 B T
A cedar, 12 ins. diam., bears N. 88°15' W., 52 lks. dist., marked ½ S 6 B T
  74.75
                 Top of nearly bare yellow ridge in saddle, bears
                E. and W., 150 ft. above draw.

Draw, 5 lks. wide, in 50-foot ravine, course S. W.

Draw, 5 lks. wide, in 50-foot ravine, course
S. 70° W.
  79.25
  87.20
                Begin descent from W. point of rocky ridge bearing
  91.00
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to E.

Chains 102.80

Base of 200-foot descent at spring brook, 2 lks. wide, 1 in. deep, course N. 60° W.; begin abrupt ascent.

111.00 111.25 Top of 300-foot ascent, bears R. 70° W. and Š. 70° E.

Intersect corner of secs. 5, 6, 7 and 8.

Land, mountainous.

Soil, rocky, gravelly and bare rock, 4th rate. Timber, small pinion-pine and cedar.

September 14, 1904.

GENERAL DESCRIPTION.

T. 31 S., R. 1 W., is a rolling prairie plateau, dotted with groves of aspen and draining to E. and N. F. for a strip of 1 to 2 miles in N. E. portion of township. The surface then breaks off abruptly to the west for 12 to 2 miles, the remainder or western portion of the township being foothills, the west boundary being in rolling flat below, at a difference of elevation of about 2000 ft. The plateau is arid though it affords some grass. The mountainous portion is covered with pinion pine, cedar and mountain mahogany, all of inferior growth. Coyote or Antimony Creek traverses the township from southeast corner in a westerly direction; going out on west boundary of sec. 19 is bold stream of fresh water, 20 lks. wide and 10 to 12 ins. deep. Antimony was mined along this creek in years past, though no operations at present.

T. 32 S., R. 1 W.

September 15:

At corner of secs. 19, 24, 25 and 30, T. 32 S., Rs.1 and 2 W., which is a trachyte 30x10x4 ins. marked as described in notes of General Land Office, but stone is broken off at surface of ground. The marked portion lying on ground, I dig up remaining portion of stone which fits on to bottom of marked portion, thus establishing its identity, and replace same with a trachyte stone 26x12x6, marked with 4 notches on N. and 2 on S. faces, and erect mound of stone 31 ft. base, 2 ft. high W. of corner. It. high W. of corner.

I set off 38°00'30" on latitude are and 3°05'45", on

declination arc and at 7 a.m., 1.m.t., establish meridian with solar.

Thence from true corner I run

East on true line between secs. 19 and 30 over sage flat.

Old road, bears N. 20° W. and S. 20° E.

Begin ascent and enter scattering timber bears N. and S.

Enter dense pinion and cedar timber bears N. and S. Draw, 5 lks. wide, bears N. W.; ascent becomes more abrupt over boulders.

Set trachyte stone 24x12x8 ins., 18 ins. in ground for \(\frac{1}{4} \) sec. corner, marked \(\frac{1}{4} \) on N. face, from which A pinion, 14 ins. diam., bears N. 74° E., 18 lks. dist., marked \(\frac{1}{4} \) S 19 B T

A pinion, 12 ins. diam., bears S. 18°30° E., 31 lks. dist., marked RES \(\frac{1}{4} \) S 30 B T

Top of ascent, bears N. and S., 600 ft. above flat, thence over rolling timbered bench with mahogany underbrush.

Begin descent, bears N. and S., through open timber.

.20

2.00

16.00 24.15

38.16

64.70

69.50

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Chains
               Trail, bears N. 20° W. and S. 20° E.
Allowing for convergency I set iron U. S. Forest
Reserve Boundary Post No. 140 18 ins. in ground
to rock, with mound of stone, 4½ ft. base, 2 ft.
high, around same for corner of secs. 19, 20, 29
78.12
78.16
                   and 30, marked
                  T 32 S S 20 in N. E. quadrant R 1 W S 29 in S. E. quadrant
                  S 30 in S. W. quadrant
S 19 in N. W. quadrant
RESERVE in N. E., S. E. and S. W. quadrants,
with 5 notches on E. and 2 on S. sides, from which
A yellow pine, 22 ins. diam., bears N. 29° E.,
260 lks. dist., marked RES T 32 S R 1 W
                             S 20 B T
                             pinion, 18 ins. diam., bears S. 56° E. 1ks. dist., marked RES T 32 S R 1 W
                        A pinion, 18 ins. diam.
                        A pinion, 6 ins. diam., bears S. 66°45' W., 83
                             lks. dist., marked RÉS T 32 S R 1 W S 30
                        A pinion, 8 ins. diam., bears N. 47°30' W., 300 lks. dist., marked T 32 S R 1 W S 19
               Land, mountainous.
               Soil, rocky and gravelly, 4th rate.
               Timber, pinion-pine and cedar, some yellow pine
                   on east side of mile. Distance allows for con-
                   vergency.
               At corner of secs. 19, 20, 29 and 30, I set off 3°59'15" N. on declination arc and at 11h55m16s
                   1.m.t., observe sun on meridian and obtain a reading of 38°00'45" on latitude arc.
               Thence I run N. 0°03' W. on true line between secs. 19 and 20,
                   through open timber.
               Draw, 10 lks. wide, course N. 20° W. Enter dense pinion and cedar timber.
  7.00
25.00
               Set trachyte stone 32x16x10 ins., 6 ins. in ground
40.00
                   to rock and build mound of stone, 32 ft. base, 2 ft. high, around same for 2 sec. corner, marked
                   1 on W. face, from which
A pinion, 14 ins. diam., bears N. 31° E., 20
lks. dist., marked RES 1 S 20 B T
                         A yellow pine, 14 ins. diam., bear 14 lks. dist., marked 1 S 19 B T
                                                                                 bears S. 9° W.,
               Thence along W. slope of ridge.
Begin abrupt descent bears W. and S. 70° E., at
66.50
               N. W. point of rocky ridge.

Base of 250-foot descent bears N. 20° W. and S. E.

Enter Crystal Creek or Center Creek, 10 lks. wide,
6 ins. deep, clear fresh water, over boulders,
  76.00
                   course N. from S. E.
               True point for sec. corner falls in creek;43 lks. W. of true point I set iron U. S. Forest Reserve
80.00
                  Buundary Post No. 139 8 ins. in ground to solid rock, and build mound of stone, 6 ft. base, 3 ft. high, around same for witness corner to corner of secs. 17, 18, 19 and 20, marked W C on top of cap
                   T 32 S S 17 in N. E. quadrant R 1 W S 20 in S. E. quadrant
                   S 19 in S. W. quadrant
S 18 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
                   notches on E. and 3 on S. sides, from which
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A red fir, 12 ins. diam., bears N. 47°45' E., 120 lks. dist., marked RES W C T 32 S R 1 W
 Chains.
                         S 17 B T
                      A red fir, 20 ins. diam., bears S. 37°15' E.,
                      132 lks. dist., marked RES W C T 32 S R 1 W S 20 B T A red fir, 18 ins. diam., bears S. 4°15' W., 96 lks. dist., marked W C T 32 S R 1 W
                         S 19 B T
                      A red fir, 22 ins. diam., bears N. 57° W., 18 lks. dist., marked W C T 32 S R 1 W S 18
                         BT
              Land, mountainous and broken.
              Soin, rocky and gravelly, covered with large boul-
                 ders, 4th rate.
              Timber, pinion and cedar, some scattering yellow
                 pine and scattering fir on creek.
                                                               September 15. 1904.
             September 16:
             At true point for corner of secs. 17, 18, 19 and 20, which is 43 lks. E. of W. C. in bed of creek, I set off 38°01'30" on latitude arc and 2°42'30"
                 N. on the declination are and at 7 a.m., 1.m.t.,
                 establish meridian with solar.
             Thence I run
N. 0°03' W. on true line between secs. 17 and 18 in bed of Crystal Creek.
             Leave creek bed, course N. 20° W. from south; begin abrupt rocky ascent, bears N. 20° W. and S.20° E. Top of 200-foot ascent bears N. 20° W. and S.20° E.
  2.00
18.00
             thence along steep W. slope of ridge.
Side hill draw, 5 lks. wide, course W.
Set trachyte stone 26x14x6 ins., 18 ins. in ground,
for \(\frac{1}{4}\) sec. corner, marked \(\frac{1}{4}\) on W. face, from
36.60
40.00
                which
                     A pinion, 12 ins. diam., bears N. 60° E., 44 lks. dist., marked RES \frac{1}{4} S 17 B T
             lks. dist., marked RES 4 S 17 B T
A cedar, 10 ins. diam., bears N. 69° W., 26
lks. dist., marked 4 S 18 B T
Draw, 10 lks. wide, course N. 80° W.
48.00
66.00
             Begin descent, bears E. and W., and leave dense, en-
             ter scattering timber.
Base of 80-foot descent; draw,
                se of 80-foot descent; draw, 5 lks. wide, course W.; thence along W. slope of spur.
73.00
             Set iron U. S. Forest Reserve Boundary Post No. 138
80.00
                24 ins. in ground, and raise mound of stone, 4
                ft. base, 12 ft. high, around same for corner of secs. 7, 8, 17 and 18, marked T 32 S S 8 in N. E. quadrant R 1 W S 17 in S. E. quadrant
                S 18 in S. W. quadrant
                S 7 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
                notches on E. and 4 on S. sides, from which
                     A pinion, 10 ins. diam., bears S. 49° E., 121 lks. dist., marked RES T 32 S R 1 W S 17
                        BT
                     A pinion, 8 ins. diam., bears S. 58°45' W., 347 lks. dist., marked T 32 S R 1 W S 18
                        BT
                     No other trees available.
             Land, mountainous.
             Soil, rocky and gravelly, 4th rate.
            Timber, pinion and cedar.
            At this corner I set off 2°36' N. on declination
                are and at 11^{h}54^{m}55^{s} l.m.t., observe sun on mer-
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Chains.
                      idian and obtain reading of 38°02'15" on lati-
                      tude arc.
                 From corner of secs. 7, 8, 17 and 18 I run
N. 0°03' W. on true line between secs. 7 and 8,
along W. slope of hill, through scattering timber
                 Draw, 10 lks. wide, course W.
Draw, 10 lks. wide, in 20-foot depression, course
 21.00
 37.00
                 W. Set trachyte stone 18x10x8 ins., 12 ins. in ground
 40.00
                     for \frac{1}{4} sec. corner, marked \frac{1}{4} on W. face, from
                     which
                A pinion, 6 ins. diam., bears S. 53°15' E.,
175 lks. dist., marked RES & 8 B T
No other trees available; I erect mound of
stone, 3½ ft. base, 2 ft. high, W. of corner
Draw, 5 lks. wide, course W.
 49.40
 64.50
                 Old road, bears E. and W.
73.60
                 Draw, 8 lks. wide, course N. 80° W.
Set iron U. S. Forest Reserve Boundary Post No. 137
80.00
                     24 ins. in ground, and raise mound of stone, 4 ft. base, 2 ft. high, around same for corner of secs. 5, 6, 7 and 8, marked T 32 S S 5 in N. E. quadrant
                     R 1 W S 8 in S. E. quadrant
S 7 in S. W. quadrant
S 6 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
                     notches on S. and E. sides, from which A pinion, 8 ins. diam., bears N. 47°45' E.,
                               lks. dist., marked RES T 32 S R 1 W S 5
                          A pinion, 14 ins. diam., bears S. 52°30' E., lks.-dist., marked RES T 32 S R 1 W S 8
                                                                            bears S. 64°45' W., 38
                          A pinion, 12 ins diam., bears S. 64°45' W. lks. dist., marked T 32 S R 1 W S 7 B T
                          A pinion, 14 ins. diam., bears N. 48°15' W., 24 lks. dist., marked T 32 S R 1 W S 6 B T
                Land, hilly and rolling.
Soil, rocky and gravelly, 4th rate.
Timber, scattering pinion and cedar.
                                                                              September 16, 1904.
                September 17: At corner of secs. 5, 6, 7 and 8, I set off 38°03' on latitude are and 2°19'30" N. on declination are and at 7 a.m., 1.m.t., establish
                    meridian with solar.
                Thence I run
N. 0°03' W. on random line between secs. 5 and 6.
                Set stake for temporary \( \frac{1}{4} \) sec. corner.

Intersect North boundary of township 103 lks.
east of corner of secs. 31 and 32 set by me
September 10th and previously described, at which
point I set a trachyte stone 20x16x10 ins. 12 ins.
in ground for closing corner of secs. 5 and 6,
T 32 S., R. 1 W., marked C C on S., with 5 notches
on E. and 1 on W., from which

A pinion 14 ins. dism. hears S. 0045; E. 260
40.00
79.70
                          A pinion, 14 ins. diam., bears S. 0°45' E.,260 lks. dist., marked RES CC T 32 S R 1 W
                              S 5 B T
                          A pinion, 8 ins. diam., b
lks. dist., marked C C
                                                                          bears S. 21°15' W., C T 32 S R 1 W S 6
                                                                                                                    248
                          and raise mound of stone, 32 ft. base, 22 ft.
               high, S. of corner. Thence from C C I run
               S. 0°03' E. on true line between secs. 5 and 6.
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Draw, 10 lks. wide, course N. 70° W.; begin ascent.

3.10

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Chains
 23.70
               Top of 70-foot ascent boars N. 20° E. and S. on
                   W. slope of spur; begin descent, bears N. and
                   S. 30° E.
               Base of 50-foot descent at draw, 10 lks. wide, course N. W.; begin ascent.
30.00
39.70
               Set trachyte 18x16x12 ins.,
                                                                  12 ins. in ground,
                   for 1/2 sec. corner, marked 1/4 on W. face, from
                  Which
               A pinion, 12 ins. diam., bears N. 48°15' E.,
21 lks. dist., marked RES ½ S 5 B T
A pinion, 8 ins. diam., bears S. 86°30' W., 51
lks. dist., marked ½ S 6 B T
Top of 150-foot ascent, bears N. W. and S. E.
60.00
71.00
               Draw, 10 lks. wide, course N. 80° W. Intersect corner of secs. 5, 6, 7 and 8.
79.70
               Land, rolling and hilly.
Soil, rocky and gravelly, 4th rate.
               Timber, scattering pinion-pine and cedar.
                               T. 32 S., Rs. 1 and 2 W.
              From corner of secs. 19, 24, 25 and 30 of T. 32 S., Rs. 1 and 2 W., previously described, I run South on random retracement line between secs. 25
               and 30, over level sage-covered flat.

Intersect E. and W. 1/4 sec. line ll lks. W. of
40.00
                    sec. corner, which is a trachyte stone 14 x 4x3
                  ins., insecurely set and of deficient size.
                  replace with a trachyte 18x8x6 ins., set 12 ins. in ground, and marked 2 on W. face, from which
              In ground, and marked 2 on W. Face, From which existing bearing trees

A pinion, 10 ins. diam., bears N. 63°30' E.,

17 lks. dist., I re-mark RES ½ S 30 B T not called for in General Land-Office notes,

A pinion, 12 ins. diam., bears S. 33° W., 7 lks. dist., instead of S. 30° W., 5 lks., as called for in notes of General Land Office,

I re-mark ½ S 25 B T

Thence from this ½ sec. corner I run
N. 0°09' W. on true retracement line between N.
              N. 0°09' W. on true retracement line between N.
                  halves of secs. 25 and 30, through timber de-
                  scending.
              Leave timber, base of descent, 20 ft. below $\frac{1}{4}$ sectorages. Enter flat, bears N.W. and S.E.

Draw, 8 lks. wide, 3 ft. banks, course N. 20° W.

I set iron U. S. Forest Reserve Boundary Post No.
  2.00
33.50
39.95
                  141, 30 ins. in ground, and build mound of stone, 4 ft. base, 1 ft. high, around same for witness corner to secs. 19, 24, 25 and 30, marked
                  W C on top of cap
T 32 S S 19 in K. E. quadrant
R 1 W S 30 in S. E. quadrant
                  S 25 in S. W. quadrant
                  R 2 W S 24 in N. W. quadrant
                  RESERVE in S. E. quadrant, with 4 notches on
                  I. and 2 on S. sides.
40.00
              Intersect corner of secs. 19, 24, 25 and 30.
              Thence from the 2 sec. corner I run
              South on random retracement line between south halves
                  of secs. 25 and 30, through timber.
39.60
              Intersect E. and W. sec. line 11 1ks. W. of corner
                  of secs. 25, 30, 31 and 36, which is a trachyte
                  8x6x6 ins. above ground, marked with 5 notches on N. and 1 on S. edges, as called for in notes of General Land Office, from which existing wit-
                  ness tree
                       A pinion, 14 ins. diam., bears N. 62°15' E.,
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T. 32 S., Rs. 1 and 2 W.

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28 lks. dist., instead of N.50° E., 20 lks. as called for in notes of General Land Office and is marked "25", no other marks; I remark same RES T 32 S R 1 W S 30 B T
  Chains
                           and take additional witness trees:
                          A pinion, 12 ins. diam., which bears S.18°45'E., 30 lks. dist., marked RES T 32 S R 1 W
                               S 31 B T
                          A pinion, 10 ins. diam., bears S. 18°45' W. 57 lks. dist., marked T 32 S R 2 W S 36
                                                                         bears S. 18°45' W.,
                          A pinion, 10 ins. diam., bears N. 80°15' W., 32 lks. dist., marked T 32 S R 2 W S 25
                Thence from true corner I run
                N. 0°09' W. on true retracement line between secs.
                    25 and 30, through timber, ascending.
  5.00
                Top of 50-foot ascent, on east slope of timbered
                    butte.
                Draw, 5 lks. wide, in 10-foot depression, course E. Begin descent, bears N. 20° W. and S. 20° E.
   6.45
  9.60
                Draw, 5 lks. wide, in 10-foot depression, course E. Draw, 5 lks. wide, in 20-foot depression, course E.
13.55
20.30
  39.60
                Intersect the 4 sec. corner between secs. 25 and 30
               Land, hilly and rolling.
Soil, rocky, gravelly and sandy, 4th rate.
Timber, pinion-pine.
                From corner of secs. 25, 30; 31 and 36 previously described I run
                South on random tetracement line between secs. 31
                   and 36.
39.88
                Intersect E. and W. 1/2 sec. line 24 lks. W. of the
                   $\frac{1}{4}$ sec. corner, which is a trachyte stone 10x8x6
               ins. above ground, firmly set and marked \( \frac{1}{4} \) on

W. face, from which existing bearing tree

A pinion, 4 ins. diam., bears N. 9° W., 331

lks. dist., instead of N. 10° W., 340 lks.,

as reported in notes of General Land Office.

I re-mark same \( \frac{1}{4} \) S 36 B T and build mound of stone 3 ft. base, 2\( \frac{1}{2} \) ft. high, W. of corner.

Thence from this \( \frac{1}{4} \) sec. corner I run

N. 0°21 W on true retracement line between rearth
               N. 0°21' W. on true retracement line between north
               halves of secs. 31 and 36, over sage brush flat. Spring brook, 5 lks. wide, 4 ft. banks, course N. E. (dries up in day, water runs at night). Leave flat, begin ascent and enter timber, bears N. 20° E. and S. 20° W.
  9.05
34.00
39.83
               I set iron U. S. Forest Reserve Boundary Post No. 142,
                   24 ins. in ground and raise mound of stone, 4 ft.
                   base, 1\frac{3}{4} ft. high, around post for witness corner to corner of secs. 25, 30, 31 and 36, marked
                   W C on top of cap
T 32 S S 30 in N. E. quadrant
R 1 W S 31 in S. E. quadrant
                   S 36 in S. W. quadrant
               R 2 W S 25 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 5
notches on N. and 1 on S. sides.
Intersect corner of secs. 25, 30, 31 and 36.
39.88
               From the \frac{1}{4} sec. corner between secs. 31 and 36 I run
               South on random retracement line between south halves of secs. 31 and 36 over sage brush flat. Intersect south boundary of township 37 lks. west of
40.80
                   corner of townships 32 and 33 S., Rs. 1 and 2 W., which is a trachyte stone 14x10x6 ins., above
                   ground marked with 6 notches on N., S., E. and W.
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T. 32 S., Rs. 1 and 2 W.

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Chains
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14.15 27.70

36.80 40.80

40.01

edges, with old mound of stone north of corner. From corner

A pinion, 8 ins. diam., bears E. 51° E., 167 lks. dist., I mark RES T 32 S R 1 W S 31

- A pinion, 10 ins. diam., bears S. 80°45' 50 lks. dist., I mark RES T 33 S S 6 B T
- A pinion, 8 ins. diam., bears S. 54° W., 83 lks. dist., I re-mark RES T 33 S R 2 W SIBT

This tree was marked "S 6" and called for in notes of General Land Office, as S. 75° W., 75 lks., which is untrue, as corner has evidently never been moved.

A pinkon, 8 ins. diam., bears N. 47°30' W., 173 lks. dist., I mark T 32 S R 2 W S 36

Thence from true township corner I run N. 0 531' W. on true retracement line between secs.

31 and 36, from top of ridge bears E. and W., descending through scattering timber. Old road, bears N. W. and S. E. Base of 120-foot descent; leave scattering timber

and enter sage flat, bears E. and W. Old road, bears N. E. and S. W. Intersect the $\frac{1}{4}$ sec. corner between secs. 31 and

Land, rolling and hilly. Soil, rocky and gravelly, 4th rate. Timber, scattering pinion.

September 17.

GENERAL DESCRIPTION.

T. 32 S., R. 1 W., is mountainous and rolling land, covered principally with small pinion-pine and cedar trees, with some open flats in western portion. Center or Crystal Creek runs in central southern portion and flows in a northwesterly direction and is used for irrigation purposes by settlers in western portion of secs. 18 and 19. Other flats in west tier of sections could be cultivated if creek afforded sufficient water.

Tps. 32 and 33 S., R. 2 W.

September 19: At corner of Tps. 32 and 33 S., Rs.

l and 2 W., I set off 37°59' on latitude are and

1°32'45" N. on declination are, and at 6 minutes before 7 o'clock a.m., l.m.t., establish meridian with solar. Thence I run

West on random retracement line between secs. 1 and 36 over rolling land, through scattering timber. Intersect N. and S. $\frac{1}{4}$ sec. line 14 lks. south of

\$\frac{1}{4}\$ sec. corner, which is a trachyte stone &x&x2 ins.

marked \$\frac{1}{4}\$ on \$N\$. face and set 2 ins. in ground in pile of small stones; being deficient in size \$I\$ replace stone with iron \$U\$. S. Forest Reserve Boundary Post \$No\$. \$144\$, set \$8\$ ins. in ground to solid rock, and build mound of stone, \$6\$ ft. base, \$3\$ ft. high around same for \$\frac{1}{2}\$ sec. corner marked ft. high, around same for \frac{1}{4} sec. corner marked 1. high, around same for 4 sec. corn 1/2 S 36 on N. side
T 32 S in N. E. quadrant
1/2 S 1 on S. side
R 2 W in S. E. quadrant
T 33 S in S. W. quadrant
RESERVE in S. E. quadrant, from which

Tps. 32 and 33 S. R. 2 W.

```
A pinion, 10 ins. diam., bears N. 81°30' W., 54 lks. dist., instead of N. 85° W., 50 lks. dist., as called for in notes of General
Chains
                            Land Office. I re-mark \frac{1}{4} S 36 B T, and
                            take as additional witness tree
                        A pinion, 12 ins. diam., which bears S.72°30'E. 92 lks. dist., marked 4 S 1 B T
               Thence from this \frac{1}{4} sec. corner I run S. 89°48' E. on true retracement line between east
                   halves of secs. 1 and 36, over rolling land
               through scattering timber. Head of draw, course N. 20° E.
14.20
               Begin descent, bears N. and S.
Spring brook, 5 lks. wide, 4 ft. banks, stream of fresh water, 2 lks. wide, 2 ins. deep, course N.; base of 80-foot descent.
18.00
22.10
23.00
               Begin ascent, bears N. and S.
               Top of 80-foot ascent, bears N. and S. Five lks. west of this corner I set iron U. S. For-
27.50
39.96
                   est Reserve Boundary Post No. 143, 10 ins. in ground to solid rock and build mound of stone, 5 ft. base, 3 ft. high, around same for witness corner to corner of Tps. 32 and 33 S., Rs. 1 and
                   2 W., marked
                   W. C. on top of cap
                   T 32 S S 31 in N. E. quadrant
               R 1 W S 6 in S. E. quadrant
T 33 S S 1 in S. W. quadrant
R 2 W S 36 in N. W. quadrant
RESERVE in N. E., S. E. and S. W. quadrants,
with 6 notches on N., S., E. and W. sides.
Intersect corner of Tps. 32 and 33 S., Rs. 1 and 2
40.01
               Land, rolling and hilly. Soil, rocky and gravelly, 4th rate.
               Timber, scattering pinion.
                                             T.33 S., R. 2 W.
              From \(\frac{1}{4}\) sec. corner on N. boundary of sec. 1 I run South on random line through center of sec. 1, over rolling land through scattering timber. Set stake for temporary \(\frac{1}{4}\) section corner; no trace of old \(\frac{1}{4}\) corner being found I proceed to rees-
80.00
                   tablish same by running line between secs. 1 and
                   12.
               To reestablish the \frac{1}{4} sec. corner between secs. 1
                  and 12,
               From corner of secs. 1, 2, 11 and 12, which is a trachyte stone 12x10x6 ins., above ground, firmly
               set and properly marked, thence I run
East on random retracement line between secs. 1 and
              12, over gently rolling flat "Johns Valley". Flat draw, 10 lks. wide, course S. 60° W. Falls 60 lks. N. of temporary stake set on line south through center of sec.
    .60
39.10
43.90
               Draw, 10 lks. wide, course S. W.; enter timber and
                   begin ascent, bears N. and S. W.
                                                                                 lks. N. of W.C.
88.45
               Intersect N. and S. offset line 19
                  to corner of secs. 1, 6, 7 and 12, which is reported 10.00 chs. E. of true point and is 700 ft. above valley. Length of line reported 80.00
               Thence from W. C. I run:
              N. 89°52' W. on true line between secs. 1 and 12.
               (10.00 true point for sec. corner, no obstacle
                   exists and corner should have been set here).
               The proportional distance for \frac{1}{4} corner (total
49.23
```

```
Chains
                    reported distance being 90.00 chs., actual dis-
                   tance being 88.45), which point is 47 lks. N. and 12 lks. E. of temporary stake set on line S. through center of sec. 1.
                I set iron U. S. Forest Reserve Boundary Post No.
                   145, 30 ins. in ground, and raise a mound of stone, 4 ft. base, 12 ft. high, around same for
                   $\frac{1}{4}$ sec. corner, marked
$\frac{1}{4}$ S 1, T 33 S on N. side
$\frac{1}{4}$ S 12 R 2 W on S. side

RESERVE in N. E. and S. E. quadrants, from which

A pinion, 12 ins. diam., bears N. 9°30' E.,

176 1ks. dist., marked RES $\frac{1}{4}$ S 1 B T

A ceder $\frac{1}{4}$ ins. diam. hears S. 71°30' W. 67
               A cedar, 8 ins. diam., bears S. 71°30 lks. dist., marked 4 S 12 B T Intersect corner of secs. 1, 2, 11 and 12.
                                                                                      71°30' W., 67
88.45
               Land, level and mountainous. Soil, rocky and gravelly, 3td and 4th rate.
               Timber, pinion and cedar.
                   ote: This line was evidently never run, as the offset of 30.00 chs. N., as calledfor in notes of General Land Office, would meet with many more obstacles than the true line and would be
               Note:
                   absolutely impracticable.
               Thence from this 1/4 sec. corner on south boundary of
               sec. 1, I run
N. 0°05' W. on true line, through center of sec. 1
over open flat land.
               Leave open flat, enter timber and begin ascent, bears N. 60° W. and S. 60° E.
 3.00
               Draw, 10 lks. wide, course N. 60° W.
 3.35
               Top of 30-foot ascent, bears N. W. and S. E. Begin descent, bears E. and W. Draw, 15 lks. wide, course S. 70° W., at base of 40-foot descent; begin ascent.
 6.50
11.50
13.00
36.00
               Top of 300-foot ascent, bears E. and W.; thence
                   along east slope of butte, standing on west end of
               ridge about 10.00 chs. west of line. Saddl ridge about 10.00 chs. east of line. Begin gradual descent, bears E. and N. 60° W.
                                                                                            Saddle on
46.00
               Base of 50-foot descent. Leave timber, enter sage-
covered flat, bears N. 70° W. and S. 70° E.
56.00
               Leave open flat, enter scattering timber. Intersect the 4 sec. corner on N. boundary of
75.00
 79.53
                   sec. 1.
               Land, rolling and mountainous. Soil, rocky and gravelly, 4th rate.
               Timber, pinion-pine and cedar.
                                                                         September 19, 1904.
               September 20:
               Note: Previous to subdividing sec. 12 the 4 sec. corner between 11 and 12 not being found I pro-
               ceed to establish same.

From corner of secs. 11, 12, 13 and 14, which is a trachyte stone 8x6x6 ins. above ground, correctly
                   marked and firmly set.
               Thence I run
               North on random retracement line between secs. 11 and 12, over rolling prairie land in "Johns Valley".
```

40.00

79.68

No trace of $\frac{1}{4}$ sec. corner being found, I set stake

for temporary 1 sec. corner.

Intersect E. and W. sec. line 47 lks. east of corner of secs. 1, 2, 11 and 12.

```
Thence from corner of secs. 1, 2, 11 and 12, I run S. 0°20' E. on true retracement line between secs. 11 and 12 over rolling prairie land.
Flat draw, course S. 60° E.
Set iron U. S. Forest Reserve Boundary Post No. 147
Chains.
    .60
39.84
                 20 ins. in ground to rock and build mound of store 4 ft. base, 2 ft. high, around same for \frac{1}{4} sec.
                 corner, marked
                 T 33 S \frac{1}{4} S 12 on E. side R 2 W \frac{1}{4} S 11 on W. side
                 RESERVE in S. E. quadrant, and raise mound of stone, 4 ft. base, 3 ft. high, W. of corner; pits
                 impracticable.
47.00
             Base of 20-foot descent; enter swale flat, bears
                 M. E. and S. W.
50.50
             Swale draw, course S. W.
74.00
             Swale draw, course S. 60° W.
79.68
             Intersect corner of secs. 11, 12, 13 and 14.
             Land, level and rolling.
                       rocky and gravelly, 4th rate.
             No timber.
             From the \frac{1}{4} sec. corner between secs. 1 and 12.
             previously described, I run
South through center of sec. 12 on random line over
                 open sage flat.
             Set stake for temporary corner of sec. 12.

Intersect south boundary of sec. 12, 95 lks. W. of the 4 sec. corner between secs. 12 and 13, which is a trachyte boulder in place, as called for in
40.00
79.52
                notes of General Land Office.
             Thence from this 1 sec. corner I run
             K. 0°41' W. on true line through center of sec. 12,
                 through timber along broken west slope of hill.
             Draw, 10 lks. wide, course W. Begin descent/ bears E. and W.
16.70
27.50
32.00
             Draw, 10 lks. wide, course W., at base of 50-foot
                 descent.
39.76
             Set stake for temporary center corner on true
                N. and S. line.
             Wash, 5 lks. wide, course N. 70° W.
40.50
43.50
             Begin descent, bears N. E. and S. W.
             Wash, 5 lks. wide, course W. Rocky side-hill wash, course W.
45.00
49.00
             Base of 100-foot descent, leave timber, enter flat, bears N. 30° E. and S. 30° W. Draw, 10 lks. wide, 3 ft. banks, course S.W. At the ½ sec. corner between secs. 1 and 12.
66.00
70.00
79.52
             Land, hilly and broken.
             Soil, rocky and gravelly, 4th rate.
             Timber, pinion-pine, some cedar.
             From \frac{1}{4} sec. corner on W. boundary of sec. 12, pre-
             viously described, I run
East on random line through center of sec. 12,
             over rolling prairie valley.

Intersect true N. and S. line through center of section, 2 lks. N. of temporary stake set for center of section.

Intersect E. boundary of sec. 12, 8 lks. S. of the ½ sec. corner between secs. 7 and 12, which is stone in place as called for in notes of General Land Office and is witnessed by old beginning true.
39.48 爿
78.33計
                Land Office and is witnessed by old bearing tree
             N. W., not called for in notes.
Thence from thes & sec. corner I run
             S. 89°57' W. on true line through center of sec.
                 12, through timber, descending abruptly.
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Chains
                    Draw, 10 lks. wide, course N. W.
Same draw, course S. W.
Same draw, course N. W., at base of 500-foot descent.
At intersection of true north and south with east
  26.35
  31.90
  37.45
  38.85
                        and west line, which is 6 lks. N. of temporary
                        stake halfway on northand south line, I set iron U. S. Forest Reserve Boundary Post No. 146, 26 ins. in ground and build mound of stone, 42 ft.
                        base, 12 ft. high, around sec. 12, marked CENTER S 12 around N. side
                                     12 ft. high, around same for center of
                       T 33 S in W. E. quadrant R 2 W in S. E. quadrant
                        RESERVE in N.E., S.E. and S.W. quadrants, from
                  which

A pinion, 12 ins. diam., bears N. 49°45' E.,
64 lks. dist., marked RES N E ¼ S 12 B T

A pinion, 14 ins. diam., bears S. 38°15' E.,
23 lks. dist., marked RES S E ½ S 12 B T

A pinion, 18 ins. diam., bears S. 75° W., 80
lks. dist., marked RES S W ¼ S 12 B T

A pinion, 12 ins. diam., bears N. 44°45' W.,
37 lks. dist., marked N W ¼ S 12 B T

Base of descent 140 ft. below center corner, enter
"Johns Valley", open prairie valley. Leave timber, bears N. 20° E. and S. 20° W.

Swale in flat drawns to S. W.

Intersect the ¼ sec. corner between secs. 11 and 12
                       which
 56.40
 72.00
 78.33臺
                   Intersect the 4 sec. corner between secs. 11 and 12
                   Land, mountainous and level.
                   Soil, rocky and gravelly, 4th rate.
                   Timber, pinion-pine, some cedar.
                                                                                      September 20. 1904.
                       ptember 21: At corner of secs. 11, 12, 13 and 14, which is a trachyte stone 8x6x6 ins. above
                   September 21:
                       ground, firmly set and correctly marked. I build mound of stone, 3 ft. base, 22 ft. high, W. of
                  this corner; pits impracticable.

At the true corner I set off 37°57'30" on latitude are and 0°46'45" N. on the declination are, and
                       at 7 minutes of 7 o'clock a.m., 1.m.t., establish
                      meridian with solar.
                  Thence I run
                  South on random retracement line between secs. 13
                       and 14, over rolling prairie valley.
                  Intersect E. and W. \(\frac{1}{4}\) sec. line 16 lks. W. of the \(\frac{1}{4}\) sec. corner, which is a boulder in place 4x3x2\frac{1}{2}
39.55
                      ft. above ground, marked $\frac{1}{4}$ on N. side. I build mound of stone, 2 ft. base, 1\frac{1}{2}$ ft. high, on top of boulder; from this $\frac{1}{4}$ corner
                             A red fir, 6 ins. diam., bears N. 46°30' E., 56 lks. dist., I mark RES ½ S 13 B T
                 A red fir, 10 ins. diam., bears N. 80° W., 30 lks. dist., I mark 4 S 14 B T

Thence from this 4 sec. corner I run
N.0°14' W. on true retracement line between north halves of secs. 13 and 14, over rolling bench slop-
                      ing to west through timber.
                 Draw in 50-foot depression, course W. Draw, 10 lks. wide, in 20-foot depression, c Begin descent, bears N. 60° E. and S. 60° W.
  1.00
  6.80
15.00
                 Base of 90-foot descent; leave scattering timber, enter prairie valley, bears N. 60° E. and S.60° W. Flat wash, 10 lks. wide, course N. 70° W. Flat wash, 5 lks. wide, course N. 70° W. Five lks. south of this corner I set iron U. S.
22.00
22.20
38.50
39.50
                      Forest Reserve Boundary Post No. 148, 30 ins. in
                      ground and build mound of stone, 3 ft. base,
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11 ft. high, around same, for witness corner to corner of secs. 11, 12, 13 and 14, marked
  Chains.
                   W C on top of cap
                   T 33 S S 12 in N. E. quadrant R 2 W S 13 in S. E. quadrant
                   S 14 in S. W. quadrant
S 11 in N. W. quadrant
RESERVE in N.E. and S.E. quadrants, with 4 notches
                   on S. and 1 on E. faces.
                Intersect corner of secs. 11, 12, 13 and 14.
 39.55
                Thence from 1/2 sec. corner between secs. 13 and 14
                South on random retracement line between south
                   halves of secs. 13 and 14.
                Intersect E. and W. sec. line 34 lks. E. of corner
 40.69
                   of secs. 13, 14, 23 and 24, which is a trachyte stone 8x6x4 ins., set 2 ins. in ground, small
                   pile of stone around same and is properly marked; being deficient in size I replace stone with iron
                   U. S. Forest Reserve Boundary Post No. 149, s
28 ins. in ground, with mound of stone, 4 ft.
                   base, 12 ft. high, around same for corner of secs
                  13, 14, 23 and 24, marked
T 33 S S 13 in N. E. quadrant
R 2 W S 24 in S. E. quadrant
                  R 2 W S 24 in S. E. quadrant
S 23 in S. W. quadrant
S 14 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants; with 3
notches on S. and 1 on E. sides, from which
A cedar, 4 ins. diam., bears N. 82°15' E.,
lks. dist., marked RES T 33 S R 2 W S
                       A pinion, 14 ins. diam., bears S. 73°15' E., 102 lks. dist., marked RES T 33 S R 2 W
                         - S 24 B T
                       A cedar, 6 ins. diam., bears S. 67° W., dist., marked T 33 S R 2 W S 23 B T
                                                                                             40 lks.
              A pinion, 8 ins. diam., bears N. 32° W., 120 lks. dist., marked T 33 S R 2 W S 14 B T Thence from this sec. corner I run
              N. 0°29' E. on true retracement line between secs.
                  13 and 14, over rolling timbered bench, sloping
                  to W.
              Draw, 10 lks. wide, in 30-foot depression, course N. 60° W.
  5.10
              Flat draw, 6 lks. wide, course N. W. Flat draw, 5 lks. wide, course N. 70° W. Intersect the 4 sec. corner between secs. 13 and 14.
24.90
30.00
40.69
              Land, hilly and mountainous. Soil, rocky and gravelly, 4th rate.
              Timber, pinion-pine and cedar.
              At the corner of secs. 13, 14, 23 and 24 I set off 0°40' N. on declination are and at 11h53m09s 1.m.t.
                  observe sun on meridian and obtain a reading of
                  37°56'30" on latitude arc.
              From corner of secs. 13, 14, 23 and 24, I run South on random retracement line between secs. 23
                 and 24, through timber over rolling bench sloping
                  to W.
              Intersect E. and W. ½ sec. line 7 lks. W. of the ½ sec. corner between secs. 23 and 24, which is a trachyte 8x4x2 ins., set in small pile of stone, marked ½ on E. face, 2 notches on S. and 1 on E.; being deficient in size and improperly marked I
39.58
                 replace same with a trachyte stone 26x10x5 ins.
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set 18 ins. in ground for $ sec. corner, marked $ on W. face and raise mound of stone 22x2 ft.
  Chains.
                 Ton w. race and raise mound of stone 22x2 1t.

W. of corner. From 4 sec. corner

A cedar, 5 ins. diam., bears S. 32° E., 112
lks. dist., I marked RES 4 S 24 B T

A cedar, 14 ins. diam., bears S. 67°45' W.,
loo lks. dist., I marked 4 S 23 B T

Thence from this 4 sec. corner I run

N. 0°06' W. on true retracement line between north
                       halves of sees. 23 and 24, through timber over
                        rolling bonch.
                 Draw, 5 lks. wide, course W. Draw, 5 lks. wide, course W. Draw, 5 lks. wide, course W. Draw, 5 lks. wide, course W.
     .20
  5.30
16.00
£2.20
                 Draw, 10 lks. wide, course S. W. Intersect corner of secs. 13, 14, 23 and 24.
27.80
39.58
                 Thence from ; sec. corner between secs. 23 and 24
                      I ran
                  South on random retracement line between south halves
                      of secs. 23 and 24.
40.00
                 Set stake for temporary corner of sees. 23, 24, 25
                      und 26.
                                                                                  September 21. 1904.
                                                    Rundom Lines.
                 September 22: From stake driven for temporary cor-
                      ner of seco. 23, 54, 55 and 26 I run
                 South on rundom line.
                 No trace of 1 sec. corner being found I set stake for temporary 1 sec. corner.

No trace of corner of secs. 25, 26, 35 and 36 being found I set stake for temporary sec. corner and
40.00
80.00
                                                                                    26, 35 and 36 being
                      continue from this stuke south between secs. 35
                     and 36.
                 No trace of 1 sec. corner being found I set stake
40.CO
                No trace of $ sec. cerner being found I set stake for temporary $ sec. cerner.

No trace of sec. cerner being found I set stake for temporary cerner of secs. 1, 2, 35 and 36.

After Wetablishing cerner of secs. 1, 2, 35 and 36, by retracing bouth boundary of tewnship.

Intersect south boundary of tewnship 51 lks. W. of cerner of secs. 1, 2, 35 and 36, which is iron U. S. Forest Reserve Roundary Post No. 152 set by me.

For true line between secs. 25 and 26 see page.

For true line between secs. 35 and 36 see page.
EC.CO
81.50
                            Recetablishment of corner of sees. 1,2,35 and 36.
                 September 14:
                 Thence to recetablish corner of sees. 1, 2, 35 and
                     36. Tps. 33 and 34 S., R. 2 W., I begin at the 2 sec. corner between secs. 2 and 35, which is a truckyte 8x8x6 inc. above ground firmly set and marked 2 on R. on R. bank of Horse Creek.
                 Thence I run
                 East on random retracement line between sees. 2 and
                35, over open prairie flat.

Stake on random line south for temporary corner of secs. 1, 2, 35 and 36, bears R. 86 lks. and continue east between secs. 1 and 36.

Intersect 2 sec. line 128 lks. N. of the 4 sec.
39.56
80.14
                     corner between sees. 1 and 36.
                 Thence from this 1 sec. corner between secs. 1 and 36, which is a loxlox6 ins. above ground, marked and witnessed as described, I run N. 89°05' W. on true retracement line between secs.
                1 and 36, descending.
Base of 80-foot descent, at north fork of Horse
  4.60
                     Creek, 10 1ks. wide, dry stream, course S. W.
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Chains
  6.40
                   Road, bears N. 20° E. and S. 20° W.
  8.70
                   Begin ascent, abrupt, bears N. 20° E. and S. 20° W.
15.20
                   Top of white sandstone ridge 200-foot ascent, bears
                   N. 20° E. and S. 20° W.; begin abrupt descent.
Head of draw, course S. W.; thence over rolling
24.20
                   bench, gradually descending.
Begin abrupt descent down red gravelly ridge,
28.20
                   bears N. E. and S. 20° W.
Base of 200-foot descent. Leave timber, enter
open flat, bears N. E. and S. W.
34.30
                   Enter timber, bears N. 70° W. and S. 70° E.
Set iron U. S. Forest Reserve Boundary Post No.
152, 30 ins. in ground and mound of stone and
earth, 3 ft. base, 1 ft. high, around same for
corner of secs. 1, 2, 35 and 36, marked
T 33 S S 36 in N. E. quadrant
R 2 W S J in S. E. quadrant
38.70
40.07
                       R 2 W S 1 in S. E. quadrant
T 34 S S 2 in S. W. quadrant
S 35 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 1
                       notch on E. and 5 on W. sides, from which
A double pinion, 12 ins. diam., bears N. 5°30'
46 lks. dist., marked RES T 33 S R 2 W
                                    S 36 B T
                               A pinion, 10 ins. diam., bears S. 64° E., 4 lks. dist., marked RES T 34 S R 2 W S
                  A cedar, 14 ins. diam., bears S. 83°30' W., 31 lks. dist., marked T 34 S R 2 W S 2 B T A pinion, 8 ins. diam., bears N. 32° W., 59 lks. dist., marked T 33 S R 2 W S 35 B T From this corner the temporary stake on random line south between secs. 35 and 36 bears N. 150 lks. on west 51 lks. dist.
                  The south between sees. 35 and 36 tears N. 150 lks., on west 51 lks. dist.

Thence from corner of sees. 1, 2, 35 and 36 I run
N. 89°05' W. on true retracement line between sees.

2 and 35, through scattering timber.

Leave timber, enter open flat, bears N. E. and
  6.00
                        s. W.
                   Old road, bears N. W. and C. E. Wash, 5 lks. wide, 4 ft. banks, course N. 80° W.
27.30
35.60
                   Intersect the 2 sec. corner between secs. 2 and 35. Land, rolling, level and mountainous.
40.07
                   Soil, sandy, gravelly and rocky, 3rd and 4th rate. Timber, pinion-pine and cedar of small scrubby
                        growth.
                                                                                           September 24, 1904.
                   From foregoing notes it appears that the line
                       south between secs. 23 and 24, 25 and 26, 35 and 36, for 2\frac{1}{2} miles is 150 lks. long by my measurement, which makes each \frac{1}{2} mile 30 lks. long.
                   September 21: Temporary stake set on random line south between secs. 23 and 24 is moved 35 lks. W.
                       and 30 lks. S. of original position as previously determined and at this, the true point for rees-
                       tablished corner of secs. 23, 24, 25 and 26, I set iron U. S. Forest Reserve Boundary post No. 150, 30 ins. in ground and raise mound of stone, 3 ft. base, 1 ft. high, around same for corner of secs. 23, 24, 25 and 26, marked T 33 S S 24 in N. E. quadrant R 2 W S 25 in S. E. quadrant
                        R 2 W S 25 in S. E. quadrant
                        S 26 in S. W. quadrant
S 23 in N. W. quadrant
                       RESERVE in N. E. and S. E. quadrants, with 1
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notch on E. and 2 on S. sides, from which

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Chains
                       A pinion, 16 ins. diam., bears N. 35°45' E., 51 lks. dist., marked RES T 33 S R 2 W
                           S 24 B T
                       A red fir, 8 ins. diam.
                           red fir, 8 ins. diam., bears S. 26° lks. dist., marked RES T 33 S R 2
                                                                                    26° E., 79
R 2 W S 25
                       A red fir, 16 ins. diam., bears S. 62°15' W., 109 lks. dist., marked T 33 S R 2 W S 26
                       A red fir, 12 ins. diam., bears N. 26°45' W., 
111 lks. dist., marked T 33 S R 2 W S 23
              Thence from corner of secs. 23, 24, 25 and 26, as
              established, I run
N. 0°30' E. on true retracement line between secs.
23 and 24, through timber along west slope of
                  mountain.
              Wash, 3 lks. wide, course N. W. Draw, 8 lks. wide, course N. 80° W. in 60-foot de-
 2.15
10.60
                  pression.
18.80
              Draw 8 1ks. wide, course W.
              Intersect the ½ sec. corner between secs. 23 and 24, previously described.
Land, rolling and mountainous.
Soil, rocky and gravelly, 4th rate.
40.30
              Timber, pinion and cedar, occasional fir.
                                                                    September 21, 1904.
                  ptember 23; The temporary stake set for temporary corner of secs. 25, 26, 35 and 36, on random line south, as shown on page, , is moved (30+60)
              September 23;
                  line south, as shown on page, , is moved (30+60 = 90 lks. south to true north and south position,
                  and to determine its proportional position east
                  and west I run from this point (90 lks. south of
                  original stake)
              West on random retracement line between secs. 26
                  and 35.
              No trace of \frac{1}{4} sec. corner.
40.00
79.23
              Intersect N. and S. sec. line 67 lks. N. of corner
                 of secs. 26, 27, 34 and 35, which is a trachyto stone 8x6x6 ins. above ground, correctly marked
                 and firmly set.
              Thence from same point for temporary corner of secs. 25, 26, 35 and 36 (90 lks. south of original stake) I run
              East on random retracement line between secs. 25
                 and 36.
             No trace of \( \frac{1}{4} \) sec. corner.

Intersect E. boundary of Township, 30 lks. south of corner of secs. 25, 30, 31 and 36, which is a trachyte 8x5x3, correctly marked and lying on top of ground. 3 chs. south to brook, as called for in notes of General Land Office Ferifies that stone is
40.00
79.76
                  in original position. I leave corner undisturbed
                 as its position
                                               only affects my line.
              Thence from this corner I run

S. 89°47' W. on true retracement line between secs.
25 and 36, through open scattering timber bench.

Spring brook, 3 lks. wide, course N. W., in dry
bed of reservoir; 3.00 chs. N. is dam of reser-
 3.80
                 voir E. and W.; 5.00 chs. dist. reservoir extends
                  5.00 chs. to south.
25.00
              Begin descent bears N. and S. and enter dense small
                  timber.
              True point for \( \frac{1}{4} \) sec. corner; no trace being found I do not reestablish this corner as it does not concern reserve boundary line directly.
39.97
              True point for corner of secs. 25, 26, 35 and 36, which is reestablished by me and set as described
79.94
```

```
500 ft. below summit and is 18 lks.
Chains.
             on page
             W. and (60 + 30) = 90 lks south of original stake
             set on random south.
          Thence from true corner of secs. 25, 26, 35 and
             36 I run
          S. 89°31' W. on true retracement line between secs. 26 and 35, through timber, descending. Draw, 10 lks. wide, course S. 80° W. Same draw, course N. 80° W.
26.00
28.60
39 . 5 2님
          True point for \frac{1}{4} sec. corner, no trace found, and I
             set no corner, as it does not directly concern
             position of corner on forest reserve boundary.
          Leave timber at base of descent 300 ft. below sec.
59.70
             corner, enter open flat "Johns Valley", bears N. and S.
          Road, bears N. and S.
68.30
          Horse creek, 10 lks., 15 ft. banks, course N. At corner of secs. 26, 27, 34 and 35. Land, mountainous and level.
77.30
79.05
          Soil, rocky, gravelly, 4th rate.
          Timber, pinion-pine and cedar.
```

Note: Line between secs. 26 and 35 is reported in notes of General Land Office as 79.60; between secs. 25 and 36 is 80.50, to which the above distance of 79.05 and 79.94 are proportional.

September 23, 1904.

TRUE LINE.

```
September 22: At true point for corner of secs.
25, 26, 35 and 36, which is 90 lks. south and 18
lks. west of original position of temporary
stake set on random line, I set iron U. S. For-
est Reserve Boundary Post No. 151, 14 ins. in
ground to rock and raise mound of stone, 4 ft.
base, 2½ ft. high, around same for corner of
secs. 25, 26, 35 and 36, marked
T 33 S S 25 in N. E. quadrant
R 2 W S 36 in S. E. quadrant
S 26 in N. W. quadrant
S 26 in N. W. quadrant
RESERVE in N. E. and S. E. quadrants, with 1
notch on E. and 1 on S. sides, from which
A pinion, 10 ins. diam., bears N. 33° E., 116
lks. dist., marked RES T 33 S R 2 W S 25
B T
A cedar, 14 ins. diam., bears S. 31° E., 68
lks. dist., marked RES T 33 S R 2 W S 36
B T
A pinion, 12 ins. diam., bears S. 17° W., 38
lks. dist., marked T 33 S R 2 W S 35 B T
A cedar, 12 ins. diam., bears N. 28°30' W., 170
lks. dist., marked T 33 S R 2 W S 26 B T
Thence from this sec. corner I run
N. 0°07' W. on true retracement line between secs.
25 and 26, over rolling and broken timbered bench.
Spring brook, 2 lks. wide, 3 ins. deep, course W.
Spring 150 lks. E. of line.
Draw, 8 lks. wide, course W.
Rocky west point of spur, begin descent, bears
E. and W.
Set trachyte stone 16x10x8 ins., 12 ins. in ground
```

for \$\frac{1}{4}\$ sec. corner, marked \$\frac{1}{4}\$ on W. face, from

A red fir, 22 ins. diam., bears N. 15°30' E., 101 lks. dist., marked RES ½ S 25 B T
A pinion, 12 ins. diam., bears N. 85°15' W.,

21.20

28.50 33.20

40.30

which

```
85 lks. dist., marked \frac{1}{4} S 26 B T, and raise mound of stone, 3 ft. base, 2 ft. high/ W.
Chains
                               of corner
                 (True point of this corner is 60 lks. S. and 27 lks
                    W. of temporary stake set on random line south).
               w. of temporary stake set on random line south). Spring brook, 3 lks. wide, 4 ins. deep, course W., base of 100 ft. descent, begin ascent.

Top of 100-foot ascent, bears N. 20° W. and E.; thence along W. slope of spur.

Draw, 10 lks. wide, course W.

Begin descent, bears N. E. and S. 10° W.

Base of 100-foot descent, bears N. 30° E. and S. 30° W.
42.00
45.70
61.30
72.70
80.20
                     S. 30° W.
80.60
                Intersect corner of secs. 23, 24, 25 and 26, which was established by me as previously described.
                Land, mountainous and broken.
Soil, rocky and gravelly, 4th rate.
Timber, pinion-pine and cedar; some scattering fir about streams and draws.
                                                                               September 22., 1904.
               September 23: From corner of secs. 1, 2, 35 and 36 established by me previously, I run N. 0°30' W. on true line between secs. 35 and 36,
                     over level land, through timber.
                Leave timber, enter open flat, bears E. and W.
  1.00
                Draw in flat, course \bar{\mathbb{V}}. Begin ascent and enter timber, bears N. 60° W. and
  7.70
21.00
                S. 60° E.
Set trachyte stone 20x12x6 ins., 15 ins. in ground for ½ sec. corner, marked ½ on W. face, from
40.30
                    which
                          A pinion, 6 ins. diam.,
                                                                           bears N. 28° E., 60
                lks. dist., marked RES & S 36 B T

A pinion, 8 ins. diam., bears N. 63° W., 125

lks. dist., marked & S 35 B T

Top of 250-foot ascent, bears N. W. and S. E.;

thence over rolling rocky bench sloping to W.

Flat draw, 5 lks. wide, course N. 70° W.

Draw, 10 lks. wide, course N. 80° "
46.00
56.50
                Draw, 10 lks. wide, course N. 80° W. Rocky wash, 5 lks. wide, course W.
64.90
74.70
                Intersect corner of secs. 25, 26, 35 and 36,
80.30
                    previously described.
                Land, hilly and broken. Soil, rocky and gravelly.
                Timber, pinion and cedar.
                                                                               September 23, 1904.
                Note:
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Note: It is noted that Mr. Walker in reestablishing the corner of secs. 23, 24, 25 and 26, and corner of secs. 25, 26, 35 and 36 aid not follow the proper rules of the General Land Office for the restoration of lost and obliterated corners in restoring lost corners on section meridional lines. His plan of procedure was not noted until after he had completed the survey of the boundaries of the Aquarius Forest Reserve and had removed to the Payson Forest Reserve, too far away to call him back to make a change. Inasmuch as his establishment of the lost corners above noted are only out in longitude a short distance, as compared to the location, if the proper rule of proceedure had been followed, it is decided to submit his work to the General Land Office with recommendations for approval.

A. F. Dunnington.

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September 24: From corner of secs. 1, 2, 35 and 36 on N. boundary of T. 34 S., R. 2 T., I run South on random retracement line between secs. 1 and
Chains
              No trace of 4 sec. corner being found I set stake
40.00
              for temporary 1 sec. corner and continue south. Ho trace of old section corner.; set stake for temporary corner of secs. 1, 2, 11 and 12.
80.00
              Thence from this temporary stake I run
              West on random line between secs. 2 and 11.

Intersect H. and S. 4 sec. line 71 lks. south of the 1 sec. corner, which is a "washed boulder" 8x5x6 ins. above ground, marked 4 on K. face, as described in notes of General Land Office.
40.05
              Note: As there is no reported survey south and east of corner of secs. 1, 2, 11 and 12, I make lines 80.00 chs., the correct length as reported
                  in old survey, thus maintaining by measurement
                  the original area of sec. 2.
              Thence from \frac{1}{4} sec. corner between secs. 2 and 11
                 I run
 133
              S. 89°50' E. on true retracement line between secs.
                  2 and 11, over open level flat.
              Wash 5.00 lks., course N. W.
Leave open flat, enter scattering timber and begin
gradual ascent, bears N. E. and S.
Brush fence, bears N. 70° W. and S. 70° E., enter
 4.00
20.00
37.40
                  Jolley's pasture enclosure.
              At the true point for corner of secs. 1, 2, 11 and 12, which is 5 lks. W. of temporary stake set
40.00
                 on random line south I set iron U. S. Forest Reserve Boundary Post No. 153, 28 ins. in ground, and raise mound of stone, 4 ft. base, 1½ ft. high, around same for corner of secs. 1, 2, 11
                  and 12, marked
                  T 34 S S 1 in N. E. quadrant
                 R 2 W S 12 in S. E. quadrant
                 S 11 in S. W. quadrant
S 2 in N. W. quadrant
RESERVE in N. E., S. E. and S. W. quadrants, with
1 notch on E. and 5 on S. sides, from which
A pinion, 5 ins. diam., bears H. 28°15' E.,
                           150 lks. dist., marked RES T 34 S
                          S 1 B T
                       A pinion, 14 ins. diam., bears S. 6° E., 86 lks. dist., marked RES T 34 S R 2 W S
                          BT
                      A pinion, 6 ins. diam., bears 2. 62° W., lks. dist., marked RES T 34 S R 2 W
              A pinion, 8 ins. diam., bears N. 69° W., 60 lks. dist., marked T 34 S R 2 W S 2 B T Thence from corner of secs. 1, £, 11 and 12, thus
                  established, I run
              N. 0°02' E. through scattering timber, gradually
                  descending.
17.50
              Begin acscent, bears E. and W.
              Base of 30-foot descent, lears E. and W.
18.10
              Horse creek, 40 lks. wide, 12 ft. deep; water, 4 lks. wide, 4 ins. deep, course W. Old dry bed of creek, course W.
23.00
25.20
              Wood road, bears E. and W.
27.00
              Begin ascent and enter dense timber, bears F. and W.
27.50
              Brush fence, bears M. and W., runs E. 20.00 chs., then turns S.; leave pasture enclosure of Mr.
36.35
                  Jolly, continue in timber.
              Top of 90-foot ascent, bears F. and W.; begin descent
38.00
                  bears E. and W.
40.00
              Set trachyte 22x12x6 ins., 15 ins. in ground, for
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A pinion, 10 ins. diam., bears S. 78° E., 80 lks. dist., marked RES 1/4 S. 1 B T
A pinion, 12 ins. diam., bears N. 89° W., 76 lks. dist., marked 1/4 S 2 B T
                 \frac{1}{4} sec. corner,
Chains.
             Base of 80-foot descent; leave timber, enter open flat, bears N. 70° W. and S. 70° E.
North Fork of Horse Creek, water 3 lks. wide,
4 ins. deep, course N. 70° W.
Road, bears E. and W.
50.00
60.40
66.40
68.50
              Leave open flat, enter timber and begin ascent,
                 bears E. and W.
72.50
              Top of 60-foot ascent and begin descent, bears
                 E. and W.
80.00
              Intersect corner of secs. 1, 2, 35 and 36 on N.
                 boundary of township previously described, 60 ft.
                 below last summit.
             Note: General Land Office notes call for creek 8.00 chs. N. of 4 which point is on timbered ridge.
The line was evidently never run? The township
                 line between the 1 corner between secs. 1 and 36 and the 1 corner between secs. 2 and 35 was I think run by a traverse to the south, down open flat of Horse Creek. Nearly all work to the north of here that falls in hills is fraudulent survey,
                 as the survey in T. 33 S., R. 2 W. was carried up on second tier and backed in to the cast, omitting
                 surveys on first tier where country is rough. In fact, this latter seems to have been the universal practice of surveyors in this part of Utah, as
                 facts and evidence of settlers (some of whom were
                 employed on surveys) will prove.
             Note: As lines run on 22nd and 23rd September are
                 complicated I have not noted declination and lati-
                 tude on those days. used on those days:
                                                      Below is table of declination
                                     Sep. 22nd.
0°23'30" N.
                                                                        Sep. 23rd.
                 Time.
              7 o'clock,
                                       0°21'15" N.
                                                                        0°02'15" S.
             8
                                       0°20' N.
0°18'45" N.
0°17'30" N.
                                       0°20'
                      11
                                                                         0°03'30" S.
              9
                                                                         0°04'45" S.
                      11
            10
                                                                         0°05'145" S.
            11
                                        0°16'30" N.
                                                                         0°06'45" S.
            12
                                        0°15'30" N.
                                                                         0°07'45"
              ٦
                                       0°14'45" N.
0°14' N.
0°13'30" N.
                      11
                                                                        0°08'30"
                                                                        0°09'15" S.
              3
                       11
                                                                         0010'
              4
                                        0°14'
                                                                         0°09'30" S.
             At the 4 corner between secs. 2 and 11 I set off 0°30' S. on declination are and at 7<sup>m</sup>54<sup>S</sup> before noon, 1.m.t., I observe sun on meridian and obtain a reading of 37°53' on latitude are.

Thence from true 4 corner I run

South on random line through center of sec. 11.

No trace of old 4 corner being found I set temporary stake and proceed as follows to reestablish some.
00.08
                 tablish same:
              At corner of secs. 10, 11, 14 and 15, which is a
                 sandstone 12x8x10 ins. above ground correctly
                 marked,
              Thence from this corner I run
              East on true retracement line over open flat.
              Leave open flat, enter timber and begin gradual ascent, bears N. and S.
20.20
33.30
              Top of 40-foot ascent on finger ridge bears E.70°E.
                 and S. 70° W.
              No trace of old 4 sec. corner being found and as
40.00
                 no survey is reported east of here, I set iron
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U. S. Forest Reserve Boundary Post No. 155, 20
Chains.
                 ins. in ground to rock, and raise mound of stone,
                 4 ft. base, 2 ft. high, around same for \frac{1}{4} sec.
                 corner, marked
                   S 11 on N. face
                 S 14 on S. face
                RESERVE in N. E. and S. E. quadrants, from which A pinion, 16 ins. diam., bears S. 51°30' E., 40 lks. dist., marked RES 4 S 11 B T
             A pinion, 18 ins. diam., bears S. 67°45' W.,
160 lks. dist., marked & S 14 B T
The point for this & corner as thus established is
68 lks. south and 76 lks. east of temporary stake
                 set on line south through center of sec. 11.
             Thence from \(\frac{1}{4}\) sec. corner between secs. 11 and 14
                as above established I run
             N. 0°32' W. on true line through center of sec. 11,
             through scattering timber, gradually ascending. Top of 90-foot ascent on finger ridge, bears
 2.70
                N. 70° E. and S. 70° W.
             Draw, 10 1ks. wide, 10-foot banks, course S. 70° W.
21.20
                 Leave timber, enter open flat, bears N. 70° E.
                 and S. 70° W.
             I set iron U. S. Forest Reserve Boundary Post No.
80.63
                154, 32 ins. in ground, and build mound of small washed boulders, 2 ft. base, 1 ft. high, around same for W. C. to \(\frac{1}{4}\) sec. corner, marked
                 W C on top of cap
                 \frac{1}{4} S 2 on \overline{\mathbb{N}}. face \frac{1}{4} S 11 on S. face
                 RESERVE in S. E. quadrant.
                 No bearing trees available; pits impracticable.
             Intersect \frac{1}{4} section corner between secs. 2 and 11.
80.68
             Land, rolling and level.
             Soil, gravelly, sandy, 3rd and 4th rate.
             Timber, pinion-pine and some scattering yellow pine
             From 4 sec. corner between secs. 11 and 14 I run South on a random line through center of sec. 14.
             No trace of 1 corner on south boundary of sec. 14
00.08
                 being found I proceed as follows to reestablish
             Fall 59 lks. F. of \frac{1}{4} sec. corner established below. From corner of secs. 14, 15, 22 and 23 I run East on true retracement line between secs. 14 and
80.33
                 23, over rolling timbered land.
             Begin gradual descent.
  4.50
             Draw, 10 1ks. wide, course N. 30° W., at base of
40-foot descent; begin ascent.

Draw, 8 1ks. wide, course S. W.

Top of 60-foot ascent bears N. and S.; begin descent.

Draw, 10 1ks. wide, course N. 20° W., base of 70-
foot descent; begin ascent.

Top of 80-foot ascent bears N. and S.;
  9.00
17.00
25.00
30.40
             Top of 90-foot ascent bears N, and S.
As old survey does not extend to east, at this point
I set sandstone 18x12x10 ins, 12 ins. in ground
for \( \frac{1}{4} \) sec. corner marked \( \frac{1}{4} \) on N. face, from which
A cedar, 8 ins. diam., bears N. 54° W., 72
38.50
40.00
                      A cedar, 8 ins. diam., bears N. lks. dist., marked & S 14 B T
                      A cedar, 10 ins diam., b
lks. dist., marked RES
                                                             bears S. 57°15' E., 82
                                                                 1 S 23 B T
              This corner as thus established is 33 lks. south
                 and 59 lks. west of temporary stake set on random line south through center of sec. 14.
              Thence from the \frac{1}{4} sec. corner between secs. 14 and
              23 as above established I run N. 0°25' E. on true line through center of sec. 14 \,
                  over rolling land, through open timber, descend-
                  ing.
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Chains
 9.00
                  Open hollow draw, course H. W., base of 150-foot
                      descent.
                  Head of draw, course W.
Begin descent, boars E. and W. down morain spur
19.50
23.30
                      of washed pebbles.
38.60
                  Draw, 15 1ks: wide, course N. W., at base of 90-foot
                  descent, begin ascent.
Top of 50-foot accent, bears E. and W., begin descent.
47.80
                  Draw, 10 lks. wide, course N. W., at base of 50 ft. descent.
  53.20
64.30
                  Open draw, course N.; begin accent, bears E. and W. Top of 40-foot accent, bears N. 70° E. and S. 70° W.
66.30
                      regin deconnt.
                 Ense of 50-foot descent, bears E. E. and E. 70° W. Oren draw, course E. 70° W. Intersect the 2 sec. corner between secs. 11 and 14. Land, hilly and religing spur ridges of washed boul-
76:30
76.60
80.33
                 ders and rebbles, resembling a morain formation.
Soil, rooky and gravelly, 4th rate.
Timber, pinion cedar and some yellow pine.
Soptember 14, 1904.
                  September 26:
and 23 I run
                                                   From 1 sec. corner between secs. 14
                  South on random line through center of sec. 23, through
                  souttoring timber along W. clope of spur.
Intersect south boundary of section at the 2 sec.
corner between sees. 22 and 26, which is a lime-
61.00
                      stone Exlox6 ins. shove ground, properly marked and firmly set, as called for in notes of General Lond Office, from which
                 A relier pine, 24 inc. diam., bears 2. 62°15' R.
322 lks. dist., I mark 1 C 26 B T
Thence from true 1 cos. corner I run
Borth on true line through center of sec. 23 ever
level open valley "Sweetwater Valley".
Corner of fence, which lears 2. and 3.
Corner of tence which hears 2. and 3.
Set tree 3. 2. Forcet Ference bourdary Post 30. 156
     .eo
15.60
                 Corner of ience which boars 2. and 3.

Set iron U. J. Ferest Herorye Boundary Post No. 156.

30 ins. in ground, and build mound of Stone, 4 ft.

base, 1; ft. high around same for reserve boundary marking on south side of main road, carked

RECERVE in E. E. and C. E. quadrants.

Escalante and Coyote road, brars E. 70° 3. and

D. 70° E.; enter ticker and begin abrupt ascent,

bears E. 70° N. and S. 70° D.
13.60
13.70
26.60
                  Draw in 30-foot deprevalen, course 2. W.
                  3.00 chp. N. E. of here.
Top 100-foot ascent, Lears N. 60° N. and S. 60° E.,
32.00
                  begin gradual descent.
Draw, 10 lks. wide, course R. 60° W., at base of
70-foot descent; begin gradual ascent.
45.25
                  Top of 40-foot ascent, bears E. 60° W. and C. 60° E. Begin descent, bears E. and W.
51.00
53.00
61.25
                  Draw, 10 1ks. wide, course W., at base of 70-foot
                  descent, begin accent.

Top of 50-foot accent, bears E. and W., on west end of spur; begin descent.

Draw, 10 lkn. wide, course S. 60° W., at base of 50-foot descent, begin accent; timber becomes
66.00
74.90
                       scattering.
                  Top of 60-foot ascent, bears N. W. and S. E.
Intersect the 2 sec. corner between secs. 14 and 23.
Lund. hilly and broken; leages and merain formation.
Soil, rocky and gravelly, 4th rate; sandyloan, 2nd
79.00
81.00
                       rate in Swootwater Valley.
                  Timber, pinion and codur.
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Chains.
              From the 4 corner bwtween secs. 23 and 26 I run
              East on random retracement line between secs. 23 and
              Intersect N. and S. section line 12 lks. S. of corner of secs. 23, 24, 25 and 26, which is a sandstone 8x6x8 ins. above ground, marked with 1 notch
40.19
                  on E. and 2 on S. sides, as described in notes of General Land Office. No bearing trees avail-
                  able and I build mound of stone, 4 ft. base, 2 ft,
              high, W. of corner.
Thence from corner of secs. 23, 24, 25 and 26 I
              S. 89°50' W. on true tetracement line between secs.
                  23 and 26, over open level land "Sweetwater Val-
              ley".
Road, bears N. 80° W. and S. 80° E., Escalante and
  2.20
                  Coyoto road.
  4.00Plank pen, 50 lks. square, center on line.
              Wash (dry), 5 lks. wide, 4 ft. banks, in flat, course N. 70° W.
27.60
              Old pole fence bears N. 80° W. and S. 80° E. Five lks. east of this \( \frac{1}{4} \) sec. corner I set iron U. S. Forest Reserve BoundaryPost No. 157, 30 ins in ground, and build mound of stone, 3 ft. base, \( \frac{1}{2} \) ft. high, around same for W. C. to \( \frac{1}{4} \) sec.
34.40
40.14
                 corner, marked W C on top of cap
                  \frac{1}{4} S 23 on N. face \frac{1}{4} S 26 on S. face
                  RESERVE in N. E. quadrant.
40.19
              At the 4 sec. corner between secs. 23 and 26.
              Land, level bottom.
Soil, sandy loam, 2nd rate.
              No timber.
              At corner of secs. 23, 24, 25 and 26 I set off 1°17' 5. on declination arc and at 8<sup>m</sup>36<sup>s</sup> before noon by 1.m.t., I observe sun on meridian and obtain a reading of 37°50' on latitude arc.
              Thence I run
              East on random retracement line between secs. 24
                  and 25.
              No trace of old \(\frac{1}{4}\) sec. corner being found and as survey does not extend to the east, at this point I set iron U. S. Forest Reserve Boundary Post No. 158, 28 ins. in ground, and build mound of stone 4 ft. base, 1\(\frac{1}{2}\) ft. high, around same for \(\frac{1}{4}\) sec.
40.00
                  corner, marked
                  \frac{1}{4} S 24 on N. face \frac{1}{4} S 25 on S. face
                  RESERVE in N. W., N. E. and S. E. quadrants.
                  from which
                           pinion, 16 ins. diam., bears N. 2°30' W., 89 lks. dist., marked RES \frac{1}{4} 8 24 B T
                       A pinion, 16 ins. diam.
                       No other trees available.
              Thence from this \(\frac{1}{4}\) sec. corner I run
West on true line between secs. 24 and 25 over
level open bottom land.
Road bears N. 80° W. and S. 80° E., Escalante and
12.20
                  Coyoto road.
38.00
              Same road, bears N. 80° E. and S. 80° W.
              Intersect corner of Secs. 23, 24, 25 and 26.
40.00
              Land, level bottom.
Soil, sandy loam and gravelly, 3rd rate,
              No timber.
              From \( \frac{1}{4} \) sec. corner between secs. 24 and 25 I run
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South on random line through center of sec. 25.
Chains
80.00
            No trace of 1 sec. corner on south boundary of sec. being found I set temporary stake and pro-
            ceed as follows to reestablish the \(\frac{1}{2}\) sec. corner. Intersect south boundary of sec. 25, 3 lks. \(\frac{1}{2}\). of \(\frac{1}{2}\) sec. corner, as established by me as follows: From corner of secs. 25, 26, 35 and 36 I run
79.50
             East on true line between secs. 25 and 36, over
            rolling prairie land.

Draw, 10 lks, wide, course R. 20° W.

Draw, 10 lks. wide, course R. 20° W.

Wash, 5 lks. wide, course N.

Wash, 5 lks. wide, course N.

Enter open bottom land, bears N. 70° W. and S.70°E

Sat iron H. S. Forest Passaye Repudent Past He 150
 1.80
16.75
26.20
29.30
35.00
40.00
            Set iron U. S. Forest Reserve Boundary Post Ro. 159
                30 ins. in ground, and build mound of stone, 4 ft
                base, 12 ft. high, around same for 2 sec. corner
                between secs. 35 and 36, marked
                2 S 25 on N. face
               2 S 36 on S. face
RESERVE in N. E. and S. E. quadrants, from which
A yellow pine, 20 ins. diam., bears S. 72°30' W.,
497 lks. dist., marked & S 36 B T
            The point for this 1 sec. corner as thus established is 50 lks. N. and 3 lks. W. of temporary stake set on random line south through center of sec.
               25.
            Thence from the \frac{1}{4} sec. corner between secs. 25 and
               36 I run
            N. 0°01' E. on true line through center of sec. 25
                over open bottom land, some scattering yellow pine
            South Creek, 10 lks. wide, 6 ft. banks, stream of water, 2 lks. wide, 1 in. deep, course N. 70° W. Leave bottom land, begin ascent, bears N. 70° W.
1.30
 4.50
               and S. 70° E.
            Top of 60-foot ascent on S. W. slope of spur, begin
14.00
               descent.
18.30
            Draw, 8 lks. wide, course S. W., at base of 30-foot
               descent, begin ascent.
            Top of 70-foot ascent, bears E. and W.; thence over
23.00
               rolling surface.
40.50
            Begin descent, bears N. 60° W. and S. 60° E.
            Open draw, 10 lks. wide, course N· 60° W., base of 100-foot descent, begin ascent.
52.50
59.00
            Top of 80-foot ascent, bears E. and W., begin de-
               scent.
            Base of 100-foot descent, enter open valley, "Sweet Water Valley", bears N. 80° W. and S. 80° E. Dry wash in flat, 10 lks. wide, 6 ft. banks, course
66.00
70.10
               N. 80° W.
            Road bears N. 80° W. and S. 80° E., Escalante and
78.30
               Coyoto road.
            Intersect the 1 sec. corner between secs. 24 and 25. Land, level and rolling morain formation.
79.50
            Soil, rocky and gravelly, 3rd and 4th rate. Timber, occasional yellow pine.
            From the 2 sec. corner between secs. 25 and 36 I run
            South on random line through center of sec. 36. Intersect south boundary of township 60 lks. E. of
79.80
               the 4 sec. corner on south boundary of sec. 36,
               which is iron boundary post No. 1 set by me on
               beginning of survey.
            Thence I run
N. 0°26' E. on true line through center of sec. 36,
               over rolling open land, gradually ascending.
            Top of 80-foot ascent, enter timber, bears K. 80° E.
 6.00
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and S. 80° W.

AQUARIUS FOREST RESERVE BOURDARY.

AQUARIUS FOREST RECERVE BOUNDARY.				
	T. 34 S., R. 2 W.			
Chains 28.50	Head of draw, course N. 20° E.			
50.00	Leave thick, enter scattering timber, bears E. and W.			
77.10	Leave rolling land, enter bottom land, bears N. 80°W. and S. 80° D. Intersect & see. corner between sees. 25 and 36. Land, rolling and hilly, morain fermation. Soil, rocky and gravelly. Timber, yellow pine and pinion. September 26, 1904. Jno. P. Walker, U. S. Surveyor.			
79.80				
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FINAL OATHS OF DEPOTE SURVEYOR AND HIS ASSISTANTS.

LIST OF NAMES.

LIGIT OF TAXWES.	
A list of the names of the individuals employed byJuo. P. Walker	
, United States Deputy Surveyor, to assist in running,	measuring, and
king the lines and corners described in the foregoing field notes of the survey of	
Aquarius Forest Reserve Boundary	
ving the respective capacities in which they acted:	,
JJElliott,PSDarlington,	, Chainman.
A. G. Wimer, Arthur B. McAntire,	, Chainman.
J. J. Elliott, L. A. Willis,	, Moundman.
Albern Allen,	, Moundman.
Albern allen, L. A. Willis,	, Axman.
William Brinkerhoff, J. J. Elliott, L.G. Luke,	, Axman.
Arthur R. HcAntire,	, Flagman.
FINAL OATH OF ASSISTANTS.	
We hereby certify that we assisted	
, United States Deputy Surveyor,	in surveying all
of the	
ase and meridian, State of Utah , which	
ne foregoing field notes as having been surveyed by him and under his direction; and been in all respects, to the best of our knowledge and belief, well and faithfully su her monuments established, according to the instructions furnished by the Entitles.	that said survey
WAPFA Director, W. S. Geological Survey.	
J. J. Elliott, P. S. Darlington,	
A. G. Wimer, Arthur B. MoAntire,	, Chainman.
J. J. Elliott, L. A. Willis,	Moundman.
Albera Allen,	, Moundman.
Albern Allen, J. A. Willis,	., Axman.
William Prinkerhoff, J. J. Elliott, L. G. Luke,	, Axman.
Arthur B. McAntire,	
day of September 1904. ot. 3 for Winer. Jno. P. Walker, ot. 2 " APPEAR Willis as Arman. U. S. Survey 16 & September 26 for Elliott as Chainman.	

FINAL OATH OF UNITED STATES DEPLY SURVEYOR.

I. Jeo. P. Walker	, United States TOP Surveyor
orders solemnly swear that, in pursuance of Accentract	United States Experty Surveyor received from Director, U.S. Geologic
Chital States Suffey and General Car. Survey	, bearing date of
13 day of May	, 1904, I have well, faithfully, and truly, in my Director he instructions furnished by the United States Exam
Generation Geological Survey , t	the Manual of Surveying Instructions, and the laws o
	ons of
	serve Boundary
	of the Salt Lake
	eteofUtah, which are represented i
	by me, and under my direction; and I do further sole
swear that all the corners of said survey have l	been established and perpetuated in strict accordance
the Manual of Surveying Instructions, and the	special written instructions of the United States Sur
General for Geological Survey and i	n the specific manner described in the field notes, and
the foregoing are the original field notes of suc	
	·
	Jno. P. Walker,
	United States Deputy Sur
and the state of t	and awarn to before me)
Subscribed by said	r
this25 day ofNovember	, 1904,
	W.,C Andrews,
GOOOOO O SEAL A	
<u> </u>	County_Clerk
 AP	PROVAL.
ATKKLAKKACLABKAS OTTEAIL AO ADIFEO	BXSVANESXSURVEYOR-GENERAL, R UNITED STATES GEOLOGICAL SURVEY.
•	May 31,,
3 3	fAquarius Forest Reserve
Boundary	
executed by J.O. P. Walker, U	. S. Sarveyor,
	<u>May 13</u> , 1904, havin
	tions and explanations made, the said field notes, a
surveys they describe, are hereby approved.	AT N. I
Militory they the services of all the services	1. Colorer
•	Whited Styles Surveyor G
	Acting Director U. S. Geological
	the field notes of the above-described surveys in
, has been corr	rectly copied from the original notes on lile in this of
~	AI/IN
· ·	VOX STANGOUNE CONTRACTOR TO VICTOR T
6-151	Acting Director U. S. Geological
	770 THE